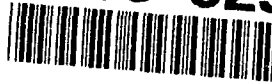




US Army Corps of Engineers
Water Resources Support Center
Institute for Water Resources

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FLEET FORECASTS FOR THE UNITED STATES TO 2020

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<p>The distribution of vessel sizes that will serve U.S. ports is a critical assumption in Corps of Engineers planning studies to determine potential benefits of harbor improvement projects. The planning horizon for such studies requires fleet forecasts that go beyond those routinely used for shipping industry purposes. The forecast is limited to vessels serving U.S. foreign trade, but is based on analysis of worldwide shipping supply and demand. Global seaborne trade projections were developed by DRI/McGraw-Hill in cooperation with Temple, Barker & Sloane, Inc. (TBS). Lloyd's Maritime Services, Ltd. (LMIS) provided data on ship utilization, construction, and scrapping. A model developed by TBS related supply to demand and accounted for vessel redeployments, retirements, and additions to fleet capacity. The forecasts are in tons of cargo available and tons of ship capacity, by size range for 11 vessel types, for 75 trade routes serving five U.S. coastal ranges (North Atlantic, South Atlantic, Gulf, North Pacific, South Pacific). Forecast intervals are 1995, 2000, 2010, and 2020.</p>					
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Fleet Forecasts for the United States to 2020

FINAL REPORT

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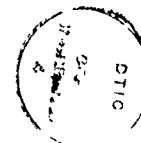
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I. Introduction

I. Introduction

The world commercial shipping fleet is due for considerable revamping over the next ten years as vessels' age forces increased scrapping and newbuilding. At the same time, world trade is forecast to grow, in general terms, at real rates in excess of real GNP growth in both the industrialized and the developing worlds. Therefore, there is likely to be increased demands on the commercial fleet calling at U.S. ports.

In order to assess the size of these changes and their potential impact on the fleet calling on U.S. ports, the United States Army Corps of Engineers commissioned a study through its ongoing contract with DRI/McGraw-Hill to formulate a fleet forecast that is consistent with the economic and trade prospects for the United States.

DRI worked in conjunction with:

Lloyd's Maritime Information Services, Ltd. (LMIS), a London firm that maintains historical databases covering ship movements, ship characteristics, newbuilding activity, laid-up statistics, and scrapping and casualty figures.

Temple, Barker & Sloane, Inc. (TBS), a Lexington, Massachusetts management consulting firm with a specialty in maritime issues, and joint partner with DRI in the development of global seaborne trade projections using the DRI/TBS World Sea Trade Service.

to develop fleet forecasts for the United States based on the current DRI macroeconomic projections for 60 economies, the implied demand for trade in 40 commodity groups across 700 trade routes worldwide, and the implications of this outlook for the world's commercial shipping fleet. The World Fleet Forecast Service, on which the enclosed forecasts are based, was developed through joint cooperation by all three of the above firms.

This report contains a brief overview of the current trade outlook by liner, dry bulk and tanker shipping sectors; a detailed description of the methodology used in both the trade and fleet forecasting work; and the detailed fleet forecast tables themselves.

II. World Sea Trade Forecast Summary

II. World Sea Trade Forecast Summary

This section describes the outlook for world seaborne trade together with the assumptions concerning economic growth underlying that outlook. As of the date of this report, the economic forecasts were the latest ones developed by the DRI/McGraw-Hill staff, and these cover the U.S., the major 12 European countries, Japan, and other fast-growing countries in the Far East.

The reader is referred to the appendix tables A1 and A2 for a list of the geographic regions used in the DRI/TBS World Sea Trade Service, the model used to develop these projections, and for the full list of forty commodities whose movements are projected in the model.

United States

Short-Term.

U.S. exports are projected to grow over the period 1988-90 by about 6.1 percent per year, while imports will grow at only a 3.9 percent rate. Export growth is expected to slow down slightly during the 1990-93 time frame, when growth will average 5.3 percent per year. This slowdown is due to a number of factors, such as increasing competition from Asian suppliers, a dollar that is stronger than expected (although weakening slowly) against the yen, and the fact that the novelty of buying from American suppliers again will have worn off (new markets may already have been fully exploited). In 1987 and 1988, the years when the devaluation of the dollar finally awakened the latent exports capabilities of American companies, real growth in U.S. exports was measured to be close to 14 percent and 18 percent, respectively. For 1989 we estimate export growth to have been only 8.7 percent, with 1990 growth expected to be a mere 3.7 percent.

Real growth of 3.9 percent in import volumes is expected for the period 1988-90. This is significantly less than in 1984, when real imports advanced at a 29 percent rate (36 percent for trade with other OECD countries and 18 percent for trade with the LDCs). Trade will grow approximately twice as fast as U.S. output (GDP) for much of this period. The slowdown in U.S. gross domestic product, occurring now in 1990, should inhibit U.S. import growth slightly: from 4.2 percent in 1989 to 3.5 percent in 1990. We also anticipate that the impact of a U.S. slowdown on trade will not be evenly felt by all trading partners. Trade with LDCs will be more adversely affected than trade with the OECD due to the closer connection between LDC exports (to the United States) and U.S. retail sales.

Long-Term

Looking out beyond 1993, we believe that the rate of growth in U.S. trade with the world will be greater relative balance. Although the trade imbalance is not forecast to disappear, as a share of the economy the trade deficit will become less as it stabilizes in the \$130-150 billion range.

Whereas history is dominated by the imbalance in growth between imports and exports, and the medium term shows a slow redress of that imbalance with export growth rates greater than import growth rates; while the long term trends suggest that export and import growth will be in much closer balance (with exports forecast to grow by about 3.9 percent per year for the period and imports at 3.2 percent).

In examining the various patterns of U.S. trade we note that in the medium term the NIEs, once growing both as a source of inexpensive imports and a market for U.S. exports, will become less important in the long-term. In the medium term, the effects of currency revaluations, strikes, and the 1989-90 U.S. economic slowdown, have slowed this trade growth from positive to even negative growth. By the end of the decade both imports and exports are back on trade, but with growth rates significantly less than before.

At the same time, U.S. trade with Southeast Asia, one of the regions that has benefited from the higher cost of production in the NIEs, continues to grow. U.S. imports are expected to continue to grow at nearly 5 percent per year through 2010, while U.S. exports will increase in the medium term to about 11 percent and in the longer term to about 6.5 percent per year.

We also expect that the United States trade with Latin America, long in the doldrums due to economic difficulties in that continent, will begin to reverse. The recent history suggests that import growth is nearly three times as great as export growth, but by the medium term there is achieved a greater balance with U.S. exports growing faster than U.S. imports. In the long term we expect the needs for food and capital to lead to an even strong growth in U.S. exports to the region than in U.S. imports - 5.9 percent versus 2.8 percent.

Economic performance over this period in the U.S. expected to be weaker in the medium term than in the historical period (2.4 percent versus 4.2 percent). An even slower pace of growth is forecast for U.S. output in the period 1993 through 2000 when a growth of only about 2.2 percent per year. In Europe for the smaller countries, we expect that the longer term will yield a slightly higher growth than the medium term and the historical period. In Japan, real growth in output in the long term is significantly less than in the historical and medium term (2.8 percent versus 4.2 percent and 4.3 percent respectively).

United States Liner

U.S. liner imports are projected to grow at an average rate of 3.6 percent through 1993, slightly higher than the 3.4 percent projected in the WSTS Fall forecast. This means that the import level in 1993 will be over 5.6 million TEUs.

Three factors contributed to this upward revision. First, the "no-recession" control forecast that DRI has maintained in recent Reviews still applies. Accordingly, while 1990 will be one of the slowest years in the economic expansion that began in 1982, U.S. GNP growth will, however, be progressively stronger each quarter. Another factor in the upward revision of the forecast is the continued strength of the U.S. dollar relative to the currencies of most of the United States' trading partners, particularly those in the Far East. (This, despite the downward pressure applied last fall by the G-7 countries.) Finally, the U.S. Census Bureau has revised 1988 trade statistics upward: The growth in U.S. liner imports for the period 1984-88 is now considered to have been 5.3 percent annually, up from the 4.6 percent reported in the Fall 1989 Review.

Liner export growth for the historical period has also been revised, from the 8.9 percent annual growth reported in the Fall of 1989, to 9.9 percent now. Because this provides a higher base for the 1988-93 period, however, and because the dollar maintains its value, the average annual growth in containerized exports for the forecast period is now projected to be 6.8 percent. This is down from the 7.6 percent forecast in the Fall of 1989, but still substantial.

The above revisions do not affect the projection made in the Fall Review, that the net container imbalance experienced by the United States throughout the 1980s will be reversed by 1992. Hereafter, exports should exceed imports for the balance of the century.

Imports

The U.S. Census Bureau's revisions of the 1988 U.S. seaborne-trade statistics set a new baseline from which growth through 1993 is measured, adding 121,000 TEUs to raise the 1988 import level to just over 4.7 million TEUs. Thus, while the average growth through 1993 is higher than previously forecast due largely to the stronger-than-expected dollar, the growth projected for the short term is much less due to the resulting increase in the 1988 level. Liner imports are now expected to have grown 5.1 percent in 1989, and are expected to grow 3.6 percent annually through 1993.

U.S. imports from the NIEs, its largest supplier of liner goods, will actually decline slightly over the forecast period. Imports from Japan and Southeast Asia remain strong, however. On the Atlantic trades, import growth from Northern Europe will remain unchanged from the slow historical rate of 2.1 percent per year, but imports from Southern Europe show a marked improvement.

Imports from the NIEs will decline at an average rate of 0.6 percent, albeit from a revised 1988 base. The factors that contributed to the 15.1 percent decline in 1988 - higher prices for NIE-produced consumer goods, U.S. market saturation for many of these products, the continuing slowdown in U.S. consumer spending, and the lack of brand identification for many NIE products - contributed to a further 7.6 percent decline in 1989.

The decrease in U.S. liner tonnage imported from the NIEs in 1988 was spread across most of the liner commodities exported by the NIEs. Especially hard hit were the two largest commodity groups, electrical equipment (WSTS Commodity 38) and consumer goods (WSTS Commodity 39), which together fell nearly a million metric tons in 1988. In 1989, some of the smaller commodities started to recover, but electrical equipment and consumer goods dropped another 520,000 metric tons.

After 1989, the projections are slightly better, indicating that this trade hit bottom in 1989. Liner TEUs from the NIEs should grow 3.1 percent in 1990, and average 1.2 percent growth annually for the period 1989-93. In terms of metric tons, the growth will be 3.1 percent in 1990 - electrical equipment and consumer goods will be up 4.3 percent and 1.8 percent, respectively - and will average 1.7 percent per year for the period 1989-93. Despite this projected slow growth, the NIEs will still be the largest source of liner goods for the United States.

The 1988 Census Bureau revisions reveal that U.S. liner imports from Japan were stronger than previously reported. This revision was anticipated by WSTS, since export data reported by Japan showed stronger growth than U.S. import data. The new data show that TEUs imported from Japan dropped 12.3 percent in 1988, which is substantial, but less severe than the 15.6 percent decline reported in the Fall 1989 Review. Note that the revised data still show a substantial decline not reported in the Japanese statistics.

The outlook for liner imports from Japan is quite strong. The growth in 1989 is estimated to have been 13.6 percent from the adjusted 1988 base; the growth in 1990 should be another 6.0 percent, with import levels reaching 866,000 TEUs. Much of the growth comes from light industrial machinery (WSTS Commodity 33) and motorcycles/auto parts (WSTS Commodity 36). In particular, WSTS Commodity 33 includes auto-related items - piston engines, electric motors and generators, air conditioners, fuel pumps, etc. - for which there is growing demand from Japanese transplant production facilities and after-sale markets.

Overall, we expect U.S. liner imports from Japan to grow at an average annual rate of 5.2 percent for the forecast period 1988-93. Much of the decline from the Fall 1989 projection of 7.2 percent is attributable to the higher 1988 base. Even so, growth in this sector is greater than the overall U.S. liner import growth rate of 3.6 percent, meaning that Japan will increase its share of U.S. trade.

Southeast Asia will also be increasing its share of U.S. liner imports. Spurred by the expected 19.3 percent increase in TEUs in 1989, this trade will show an average growth of 7.3 percent through 1993, even though growth between 1990 and 1993 will average only 4.5 percent.

As Japanese and South Korean firms shift more of their manufacturing sites to lower-cost Southeast Asia, we expect U.S. imports of consumer goods (WSTS Commodity 39) from this region to increase substantially, with tonnage growing an average of 6.3 percent through 1993. This growth solidifies this commodity group's position as the second-largest U.S. commodity import from Southeast Asia. Growth in the top-ranked commodity, rubber (WSTS Commodity 10), will remain flat through 1993; the third-ranked grouping, fruit and vegetables (WSTS Commodity 3), will grow at an average rate of 2.8 percent per year in the same period.

In the long term (through 2000), we expect consumer goods to overtake rubber as the highest tonnage U.S. import from Southeast Asia, and electrical equipment (WSTS Commodity 38) to overtake fruits and vegetables for third place. The significance of electrical equipment will grow as such items as office machines, telecommunications equipment, and home entertainment electronics are produced in Southeast Asia in increasing quantities for export to the United States.

For consumer products shipped to the United States, the WSTS model includes a price elasticity of U.S. demand of -1.3 percent for the NIEs and +2.4 for Southeast Asia. This means that whenever NIE prices rise 1 percent, other things remaining the same, U.S. imports of those products would drop 1.3 percent. The United States would then purchase similar products from Southeast Asia (to the extent they were available), partly because the difference in price would make the U.S. consumer indifferent to their origin. (The difference in absolute size reflects the smaller Southeast Asian base relative to the NIE base of trade.) Interestingly, the model's price elasticity for Japanese consumer products is less than that for the NIEs. This means that for the same increase in price for similar products made in Japan and the NIEs, the U.S. consumer is more likely to shift away from the NIE products than from the Japanese product.

Now that the political tensions in China appear to be easing, U.S. liner imports from that country are expected to start growing again. While the 1984-88 annual growth rate of 29.1 percent cannot be sustained, the projected 1990 growth of 10.0 percent and the average 1988-93 growth of 11.7 percent are still significant.

U.S. liner imports from Northern Europe, the second-largest source of U.S. liner imports, are expected to show steady, if unspectacular, growth through the forecast period. The projected 2.1 percent average growth in TEUs will result from faster growth after a lackluster year in 1990. The largest commodity group in this trade, food/beverages/tobacco (WSTS Commodity 6), will decline 3.1 percent in 1990, following a 5.6 percent decline in 1989. The second-largest commodity, iron and steel products (WSTS Commodity 30), will decline 1.7 percent in 1990, but this is a full order better than the 17.4 percent drop experienced in 1989. With fourth-place consumer goods (WSTS Commodity 39) also dropping 1.5 percent in 1990, strong increases in import TEUs in the chemical commodities (WSTS Commodities 23, 24, and 26) and in industrial machinery (WSTS Commodities 32 and 33) will be needed to keep the overall trade growing.

The near- and long-term outlooks are brighter for U.S. liner imports from Southern Europe. Import TEUs will grow 7.0 percent in 1990, representing a strong comeback from the 8.1 percent drop in 1988, and even the estimated 3.8 percent increase in 1989. For the forecast period, this trade will grow at an average annual rate of 6.3 percent. The key commodity in this trade is cement, lime, stone, and other crude minerals (WSTS Commodity 14) which is expected to have dropped 12.7 percent in 1989. It should recover most of this loss in 1990, and average 6.7 percent growth through 1993. Similarly, other nonmetallic mineral and metal manufactures (WSTS Commodity 29) will show solid growth (8.4 percent per year on average), whereas food products (WSTS Commodities 3 and 6) will experience positive but weak growth.

Exports

According to WSTS estimates, in 1989 the NIEs will have become the largest market for U.S. liner goods, followed by Japan and Northern Europe. (Together, these three markets absorb more than 60 percent of the TEUs shipped from the United States, a combined share that is projected to grow in the forecast period.) While U.S. exports in TEUs are expected to grow at an average rate of 6.8 percent through 1993, exports to the NIEs should average 11.6 percent annually; this is smaller than the 16.4 percent historical average, but still substantial for such a large trade. The 1984-88 growth averaged just over 98,000 TEUs per year; the projected growth through 1993 will be more than 125,000 TEUs per year, and we do not foresee this pace diminishing through the end of the century.

The growth in this trade is a combined effect of the continued strength of some of the NIE currencies; strong consumer-products sectors, such as those in South Korea, and continued growth in exports of finished NIE products that required imports of parts or partially assembled units from other areas, particularly the United States. We noted earlier that U.S. imports of NIE liner goods will experience slightly negative growth through 1993;

NIE exports to other markets, however, will be strong, because they have not saturated those markets and because the consumer sectors in those markets are stronger than that in the United States. Five intermediate commodities - textiles, lumber and plywood, pulp, ores and scrap, and chemical products (WSTS Commodities 7, 11, 12, 18 and 28) - make up over half of the U.S. liner tonnage to the NIEs; by 1993, the combined share of these commodities will grow to almost 60 percent.

The Japanese market for U.S. liner goods will average 5.5 percent annual growth through 1993, down from the historical average of 17.3 percent, but still substantial. Much of this growth will reflect Japan's shift to a consumer society, with shipments of meat and fish (WSTS Commodity 2) and food/beverages/tobacco (WSTS Commodity 4), we see that one-third of U.S. exports to Japan will be consumer-targeted in 1993.

Part of the growth on this trade results from the increased value of the Japanese yen relative to the U.S. dollar. We expect the dollar to fall against the yen in 1990 as U.S. interest rates decline, U.S. real GNP growth slows down, and especially important, the trade imbalance between the two countries forces a correction in exchange rate.

The forecast for U.S. liner exports to China is little changed from that in the Fall 1989 Review. After a decrease in 1989, we expect an increase in shipments of 11,000 TEUs, or 8.6 percent, in 1990. Thereafter, normalized relations will foster a business-as-usual climate, and average growth from 1990 to 1993 will be 13.4 percent.

The fastest-growing Far East market for U.S. liner exports will be Southeast Asia, which will increase imports from the United States at an average annual rate of 12.1 percent over the forecast period. This is significant not only because it represent fast growth, but also because it exceeds the historical rate for this trade. The growth rates for exports to the NIEs, Japan, and China, on the other hand, are expected to be smaller in 1988-93 than in 1984-88.

Liner exports to Europe are expected to grow at a slower rate than previously forecast, partly because of the revised baseline for 1988 exports. Europe should accept just over 1 million TEUs from the United States in 1990. Based on projected average growth of 3.8 percent for Northern Europe and 3.0 percent for Southern Europe, Europe will fall to third place behind the NIEs and Japan as a U.S. export market sometime in 1992.

Nearly 40 percent of the U.S. liner tonnage destined for Northern Europe in 1990 will consist of lumber and plywood, pulp, chemical products, and paper (WSTS Commodities 11, 12, 26 and 28). These same groups will account for over half of the shipments to Southern Europe. In both markets, the growth in shipments of pulp will be substantial. For Northern Europe, the growth in shipments of chemical products will be the fastest of these commodities, averaging 8.1 percent (in metric tons) through 1993.

Trade In Bulk Products

Coal and Coke Trades

If we define "world trade" as total OECD imports plus exports from OECD countries to non-OECD regions of the world, then world coal and coke trade should exceed 290 million tons in 1990. This quantity does not include flows from one LDC to another, such as from Columbia to the Far East, but it captures the vast majority of the world's tonnage, since the major industrialized nations (all OECD members) are the major consumers of coal and coke.

This year's world trade in coal and coke is 4.8 percent higher than the 1989 level, precisely the expected average rate of growth over the 1988-93 forecast period.

Japan, the world's largest importer of coal and coke, will purchase 119 million tons on the open market this year, and three-quarters of this will come from OECD members. The 3.5 percent growth in this import trade, while not as fast as the last two years of Japanese imports, still represents strong growth, tied to the solid growth in GNP, domestic investment, and population. Australia is the major supplier to this huge market, followed by Canada and the United States.

On the export side, the United States should continue its growth this year, even in the face of the coal workers' strike that plagued the industry for several months at the end of 1989. This year's 90 million tons of coal and coke exports will be targeted at the following markets:

Region	1990 Imports from the United States (millions of metric tons)
Northern Europe	26.7
Southern Europe	15.4
Japan	13.5
Canada	13.4
Far East	8.0
Latin America	7.1
Middle East	4.5
Eastern Europe	1.5

Iron Ore Trades

Over the 1988-93 period, the iron ore trades will grow at an average rate of 2.3 percent per year, the same as the expected growth rate for grain trade.

For the United States, steel production this year is expected to be down from its 1989 level. With 1989 steel production at 97 million tons, this year should see a fall to 87.5 million tons in the face of a much weaker economy marked by an extremely feeble automobile market and lackluster growth in nonresidential fixed investment. On the auto front, all of the U.S. automobile companies are cutting their production this year, and even the Japanese "transplants" are expected to produce the same number of cars and trucks as last year, at best. Mazda, for example, recently announced an actual cutback at its Flat Rock production site.

The Voluntary Restraint Agreements (VRA) that were in effect for a 5-year period ending September 30, 1989, were renewed for another 2 and 1/2 years. These agreements limit to 18.4 percent the U.S. market share that can be captured by foreign suppliers of steel products. For this year, however, with steel production and demand down from last year, most foreign suppliers of steel products will fall easily within the VRA limits. If the market had been forecast to be much stronger, there would have been more haggling over the terms of the VRAs, but last year's final negotiations went smoothly because most forecasters expected that the U.S. market would be weak, at least in 1990.

The drop-off in U.S. steel production will occur mainly in basic oxygen furnaces, which require higher quantities of iron ore than electric furnaces. Therefore, the effect on iron ore demand will be disproportionate to the reduction in steel production.

We expect the U.S. to import only 18.85 million metric tons of iron ore this year. With the rise in high-quality iron ore availability in Brazil, the U.S. has shifted its primary source of iron ore from Canada to South America, so that this year, 54 percent of the U.S. requirements will come from Brazil, and another 33 percent from Canada.

We do not expect U.S. raw steel production to increase much above 91 million tons through 1993. While this is slightly higher than the projection for 1990, it is still far down from the 97 million tons produced in 1989. Therefore, the demand for imported iron ore will not grow much, at 0.2 percent on average, after this year's 11.3 percent decline.

Crude Petroleum Trades

The United States is estimated to have imported almost 14.5 percent more oil in 1989 than in 1988, bringing its total import volumes close to 228 million metric tons. This "bump"

can be traced largely to depletion of U.S. oil reserves following the recent period of low crude prices and the consequent slowdown in domestic drilling. As oil prices continue to rise through the forecast period, demand should level off while supply increases. U.S. imports should then slacken starting in 1990 to average less than 2 percent growth per year for the 1990-93 period. However, the "bump" in imports last year is enough to pull up the average growth rate for the forecast period to just under 4 percent per year - still much lower than the 8 percent annual growth recorded in the historical period.

U.S. imports continue to show a shift toward Arabian Gulf sources. By 1992, the Gulf will surpass Latin American in tons shipped to the United States, a lead that will increase in 1993. In fact, after the peak of 76 million metric tons reached last year, Latin American crude shipments to the United States will sink back to 1988 levels.

It should be noted that the seaborne crude import figures used herein do not include the flows arriving in the U.S. via the Louisiana Off-Shore Oil Platform, since those flows are classified as pipeline arrivals rather than seaborne.

Petroleum Product Trades

The United States remains, for the foreseeable future, the dominant importer of petroleum products, taking in just more than twice as much in metric tons as Japan each year. Even so, over 1989 and 1990, the United States is expected to show small declines in import volumes, due in part to equipment replacements and upgrades in U.S. refineries that have forestalled an expected domestic "supply crunch." In 1989, the import declines will be felt across the board by most of the suppliers to the United States; but in 1990, the brunt of the decrease will be felt by Latin America, the largest source of U.S. product imports by far. U.S. imports should start climbing again by 1991, ending with an upswing of nearly 7.5 percent in 1993.

III. Methodology Used In Developing:

- World Sea Trade Forecast**
- World Fleet Forecast**

III. Methodology Used In Developing: World Sea Trade Forecast

by

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Director, International Trade Forecasting
Data Resources/McGraw-Hill*

Introduction

The DRI/TBS World Sea Trade Service (WSTS) depends upon a complex set of models. International trade is modelled for individual products over time. Individual models of worldwide trade for more than 40 commodities are included in the general service. Specific forecasts show inbound and outbound trade for 21 individual OECD member countries with 27 district aggregates or countries worldwide.

This trade forecasting methodology utilizes both econometrically derived forecasts (when feasible and when reasonably accurate) and less dynamic, propensity-based models. The result are models of commodity trade that are both robust, yet relatively stable over time.

Unlike many other attempts at modelling international trade flows, DRI's forecasts are developed using commodity specific models rather than sharing total trade down to the individual product categories. Thus commodity specific factors can be introduced both into the models and into the final results.

Imports and exports among the major developed market economy countries (21 OECD reporters for which primary trade data is available) are balanced with exports dependent, in the case of intra-OECD trade flows, on import demand patterns.

Forecasts are based on estimates of macroeconomic variables drawn from DRI's extensive set of macroeconomic models (45 countries are modeled regularly as part of the DRI International Service). Trade models, while depending upon macroeconomic factors, are not necessarily constrained by country specific trade forecasts drawn from other DRI macroeconomic services. The overall forecast, however, is checked against these other projections of trade volumes to insure that it is reasonably close to those forecasts.

Econometric Modelling Techniques

International trade is modeled both econometrically and also using general propensity models driven by total trade estimates. Commodity trade balances are maintained, and the final forecasts integrate supply and demand in a way that uniquely considers changes in market share as well as market demand. While solutions are not simultaneous, they do yield consistent OECD-wide forecasts of trade so that estimates of United States exports depend upon European import demand as well as United States export competitiveness in European markets.

Each commodity model represents a mix of more than 500 structural equations, combined with an equal number of identities and average relationships. By combining past patterns with macroeconomic variables derived from DRI macroeconomic forecasts, robust estimates of world trade trends for specific commodities are generated. Forecasts, while often aggregated into larger regions are developed individually for each of the 21 OECD countries whose import and export data is used in the system. For example, the forecast for Northern Europe is comprised of the individual forecasts of 9 OECD countries. We also have reporter country data for the three NIEs – Hong Hong, Korea, and Taiwan – so that the entire system reflects the global trade of 24 key trading countries.

The integration of the less detailed macroeconomic information with commodity specific and region specific trade data results in a single forecast covering more than 40 commodities and 24 countries trade to and from 36 regions. Our forecasts thus represent an overall picture for international trade characterizing direction of trade as well as total demand or supply.

Measuring Real Volume For Internationally Traded Products

Before discussing the structure of the world trade models in more detail, it is important to address first the units of measurement that are being ultimately forecast. While for theoretical reasons it is important to forecast value of trade rather than some quantity based measure, developing internationally consistent measures of real volume of trade when prices and exchange rates are constantly changing, is not easy.

There is no simple method for deflating current dollar trade values into a measure of constant volume of trade. However, we have attempted to develop a standardized methodology for deflating nominal trade values in order to allow cross country comparisons. Two principals have guided our approach:

1. Real changes in commodity prices should be captured; and
2. Exchange rate changes should not be introduced mechanically, in order to avoid the implicit assumption that the full effect of changes in international prices are passed onto buyers by sellers.

The lack of fully consistent, trade specific prices for commodities included in our system has led us to develop a hybrid methodology using import, export and domestic price statistics for the United States and exchange rates. These synthetic measures are specific to OECD countries, specific to the commodities analyzed, and also specific to the direction of the trade.

We depend upon United States Department of Labor price indices for U.S. import and export price changes. These indices are developed using survey data from U.S. importers and exporters, are commodity specific, and are available quarterly. They are not, however, specific to the direction of trade. Thus to understand the effect of U.S. dollar changes on Japanese export volumes we need to abstract from these commodity-specific U.S. dollar price indices by including the impact of changes in exchange rates and general export price trends in Japan.

In general for OECD country exporters we use U.S. export commodity price indices for historical data and DRI developed price forecasts for forecast periods. For exports of LDC regions we use U.S. import commodity price indices. For imports from OECD regions we develop synthetic import price indices, specific to commodities, importing countries, and exporters – i.e., for the French imports of product *k* from Japan we use Japanese export prices to the world of product *k*. When used in conjunction with the dollar denominated (at current dollar/franc exchange rates) French imports, the result is a volume measure of French imports from Japan.

These synthetic measures thus capture some of the dynamic movement in prices paid by importers. They are reasonable measures of price changes associated with commodity price trends and exchange rate adjustments. Moreover, there exists no other set of country/commodity/trade direction specific price indices for deflating nominal U.S. dollar trade values.

Export prices for LDCs are the same as U.S. import price deflators for similar commodities based on the assumption that LDCs have kept their currency values consistent with U.S. prices and that they have an ability to price exports consistent with prices in developed country markets. The only exceptions, among the LDC regions, are the three emerging Asian powerhouses – Korea, Taiwan and Hong Kong. Small adjustments in import prices for changes in these country's exchange rates have been introduced into the model's structure.

The import price trends are regional and are based on export price trends of exporters. The aggregate price, i.e., for OECD-wide trade, is the combination of export price trends weighted by actual levels of trade.

While there are problems associated with any quasi-mechanical approach, the advantages to the model of having such a systematic method of measuring the real volume of trade across so many countries which use so many different definitions and statistical collection methods, outweigh the deficiencies and inaccuracies of the system. The result is that

estimates of volume of trade are fully consistent with general price trends in the commodities represented and with changes in exchange rates among the 21 OECD member countries for which detailed reporter trade information is available.

The Structure of the Model

Each commodity specific trade model is constructed as a unique whole representing the exchange of products for that commodity between the major industrialized countries and the world community. There are more than 200 countries trading in the world today. To make the world trade model manageable, this number of countries has been subdivided into 28 distinct partner regions. An additional 9 partner regions are available which are useful aggregates of the 27 distinct partners.

The detail provided, however, is reasonable given the fact that a complete, worldwide, forecast is available for each of the 21 major OECD markets and the three Newly Industrialized Economies of Asia that account for more than 80 percent of world trade. Intra-developing country trade is not represented in the models structure due to the lack of reliable and timely reporter-partner country data on trade among the developing countries.

Reporter countries are those for which reliable detailed trade data and DRI macroeconomic forecasts are available regularly (see List A). These included industrialized countries account for roughly 95 percent or more of the trade of the OECD group (only Iceland is excluded) and three newly industrialized economies of Asia.

List A Reporter Countries

Major Industrialized Countries

Australia	Austria
Belgium	Canada
Denmark	Finland
France	Germany
Greece	Ireland
New Zealand	Italy
Japan	Netherlands
Norway	Portugal
Spain	Sweden
Switzerland	United Kingdom
United States	

Newly Industrializing Economies of Asia (NIEs)

Hong Kong	Taiwan
South Korea	

List B
Partner Regions

WORLD All countries including Socialists

OECD All 24 members of the OECD

NE	Northern European Countries
SEU	Southern European Countries
JAPAN	Japan
CANADA	Canada
US	United States
AZ	Australia/New Zealand

LDC Less Development Countries

LATIN AMERICA

WLA	Western Latin America
ELA	Eastern Latin America
AR	Argentina
BR	Brazil
CLA	Caribbean Basin (Central America, Mexico, Caribbean Islands)

MEDITERRANEAN/PERSIAN GULF

MED	All countries bordering on the Mediterranean Sea including North Africa, Egypt, and portions of the Middle East
PG	All countries bordering on the Persian Gulf

INDIAN SUBCONTINENT India, Pakistan, Bangladesh, Afghanistan, Sri Lanka

FAR EAST

NIEs Newly Industrializing Economies of Asia

KO	Korea
TA	Taiwan
HK	Hong Kong

SEA	Southeast Asia
SI	Singapore
MA	Malaysia
ID	Indonesia
PH	Philippines
TH	Thailand
CH	China (including Norther Korea and Mongolia)
AFRICA	
SAF	Southern Africa including Angola, Zambia, Zimbabwe, Malawi, South Africa
EAF	East Africa including Kenya, Ethiopia, Uganda
WAF	West Africa including Ghana, Togo, Nigeria
EASTERN EUROPE	All countries in Eastern Europe including the Soviet Union and Yugoslavia

The Process

The Multistage Approach to Global Trade Forecasting

Trade for each commodity is first arranged in arrays representing the imports or exports for the 21 OECD reporters with each of the partner regions separately indicated. In the case of intra-LDC trade all models are developed for 24 reporters – the 21 OECD reporters and Hong Kong, Korea and Taiwan. Thus for each partner region the export and import flows of the 21 or 24 individual reporters (see List A) for 10 years of history are arrayed in a single block of data. For example, within the same block the data for the United States trade with the Northern European partners (summed together), and the French trade with its Northern European partners is included in the partner region sum.

All models are estimated using a pooled cross-sectional modelling technique. Pooled cross-sectional models combine information on many countries over a shorter time interval rather than relying upon country specific time series models over longer time periods. Because international trade data is consistently available only from 1978 (Revision 2 of the United Nation's Standard International Trade Classification) and because pooled cross-sectional models of trade are capable, in theoretic literature, of identifying changing patterns of trade, this approach is both practical and justified. Thus the econometric models are jointly developed for 21 independent countries at the same time.

Cross country models are based on a theory that suggests patterns of future trade can be determined by observing the relationship between market size and economic wealth for more than a single country. Thus the pattern of trade of an advanced, service dominated economy like the United States may serve as a template for future patterns of trade for other countries not yet as large or as wealthy.

The econometric relationships vary depending upon whether import or export data are used. Most of the "variance" explained, however, is explained by the more general economic variables for which the calculated coefficients are general to the entire set of 21 OECD countries included in the estimating equation. Individual country intercepts are also calculated to ensure that non-economic factors that affect the "propensity" of a country to import or its ability to export a specific product are captured. The form that these intercept terms take – i.e., the independent variable that they "modify" – differs depending on whether an export or an import model is used. Thus for each country the econometric equation is made up of two parts:

1. Coefficients specific to that country; and
2. Coefficients common to the set of countries.

$M_{ikt} = f(\text{General Parameters}) + b_{ikt} * K_i$, where i is the report country, k is the product type, and t is the trade direction; and where D_i is the dummy variable (either 0 or 1) for each report country (this dummy array has the same dimension as the trade data or the exogenous assumption data and there is a 1 present if the country's own data is in the array and a zero if the other country's data is sequenced).

Econometric Variables

Import equations may depend upon:

- Traded goods consumption as a share of Gross National Product
- Import share of traded goods consumption
- Population size (market potential)
- Investment share of Gross Domestic Products
- Import prices (the adjusted local currency price after taking into account changes fixed in local/\$ rates, cross rates of exchange, and U.S. commodity price trends)
- Import prices for specific importing regions (U.S., Japan, Canada, Northern Europe and Southern Europe)

- Consumption of commodity (specific coefficients for U.S., Japan, Canada, Northern Europe and Southern Europe)
- Ratio of production of commodity to consumption (specific coefficients for U.S., Japan, Canada, Northern Europe and Southern Europe)
- Country specific intercepts
- Country specific adjustment variables (for refining estimates using a two-stage estimation procedure).

Export forecasting models are dependent upon many of the same variables. However, there are a few variables unique to exporting models since they relate relative positions among exporters based on changes in dollar wages, productivity growth rates, and other exchange rate related pricing factors. Exports are a function of the following variables:

- Goods production share of Gross Domestic Product
- Exports of merchandise, adjusted for service component, as a share of production of goods
- Per capita Gross Domestic Product
- Population size (market potential)
- Exchange rate adjusted wage rates
- Real growth in output relative to real growth in OECD output
- Relative wage rates (in U.S. dollars)
- Per capital Gross Domestic Product of exporter to importing region
- Exporter's price index in importer's currency (includes adjustments for commodity prices, general export price trends relative to U.S. price trends, and exchange rates)
- Investment share of Gross Domestic Products
- Production of commodity (regional specific coefficients for U.S., Canada, Japan, Northern Europe and Southern Europe)
- Country specific variables measuring demand growth and relative prices in importing regions
- Country specific adjustment variables (developed using the iterative method of model adjustment)

Total imports of LDC regions from the OECD reporters are defined by the exports to the regions and also by a separate equation calculated by comparing intra-LDC regional demand for product k from all OECD reporters combined (sum of all reporters to a specific region d).

This model captures the dynamic nature of trade within the Less Developed Countries. As countries develop, their pattern of imports will necessarily shift. By developing a cross-regional sub-model, based on the level of trade of each region against some general economic variables ((as defined below), we capture some of this shifting pattern of demand. The following regional variables are used in this sub-model:

- Population size (market potential)
- Per capital Gross Domestic Product (the region's wealth)
- Relative prices – a combination term combining export prices and exchange rate movements
- Export share (a measure of regional success or trade intensity)
- Region specific coefficients for total imports
- Region specific consumption estimates for commodity
- Region specific production to consumption ratios for commodity
- Region specific intercepts (non-economic factors affecting imports from OECD).

To insure that the best estimation and forecasting approach is used for the forecast whenever feasible, the model uses built-in software that measures the accuracy of any technique over the historical data period. When there are doubts about the accuracy of the estimate of trade over the historical period an alternative approach is automatically applied. This software acts as an "expert" system, supervising the development of the forecast from the start to finish. Like an economist, it develops alternative methods to compare results when errors associated with the econometric approach are large.

Non-Econometric Approaches to Forecasting International Trade

In cases where the econometric approaches may not be sufficiently accurate, generally occurring when there is an insufficient number of observations, stable non-econometric estimates of trade flows are developed using average patterns associated with historical periods. Such methods must, necessarily, choose criteria on which to base estimates and these estimates are typically less volatile than the actual data they represent.

Our non-econometric estimates are based on propensity models that use data from two macroeconomic variables rather than a single variable. The resulting forecast is not simply the proportional growth to total trade that would result from a single variable model, rather it is more complex and, we believe, more accurate.

For these non-econometric propensity models, parameters are developed. Each parameter relates, for either imports or exports of a reporter (i), its trade with a regional group (d) of a single commodity (k). Each parameter is a function of the total demand for the commodity from the world (for which we usually are able to develop a reasonable model or lacking that a good proxy based on our estimate of trade relative to total consumption in the end market for the product). An example of this technique follows.

The average import propensity (APM) against total imports (M) of the product k from region d by country i would be calculated as:

$$APM(ikd) = M(ikd, 1985 \text{ to } 1988) / M(ik, \text{World}, 1985 \text{ to } 1988)$$

If the simple average technique were used exclusively the resulting forecast would have only some of the variation inherent in the actual trade itself. A proportional model must, necessarily, yield an estimate of growth consistent with the pattern of trade of the independent variable used to forecast it. Thus if we are to utilize any of the information on the variation in trade period to period in the non-econometric approach, we need to introduce a more sophisticated structure to the simple proportional model described above.

To capture this historical variation we have developed an approach that mimics the change in the ratio over time and forecasts this change subject to certain limits on its growth rate. Thus imports, if forecast using a propensity model, reflect the changing share of the source market in total imports from the world of the commodity and the imports from the world reflect economic factors affecting a demand. This combination yields a unique forecast for each flow that will be different from the base forecast for total trade with the world.

$$GRAPM(ikd) = \%Growth(APM(ikd, 1985-1988))$$

Where %Growth is the compound annual rate of growth for the period 1985-88, so that

$$M(ikd, t+1) = (APM(ikd, t) * (1 + GRAPM(ikd)) / 100) * M(ik, \text{World}, t+1)$$

Where M is imports of country i of product k from region d for time t; APM is the mean average propensity of country i to import k from d over the period 1985-88 relative to country i's imports from the world of commodity k for the same time period or simply region d's market share of country i's total imports of product k; GRAPM is the growth rate of APM; and M(ik, World) is country i's imports of product k from the world.

Integration of Econometric Forecasts with Non-Econometric Model Results

As discussed above, the World Trade Model combines elements of both methods to insure that results are reasonable estimates of future patterns of growth. To do this the system uses a weighted distribution of estimates of trade from both the propensity and the econometric models.

Because of the great number of trade flows forecasted and their interdependence, it is critical that the world trade models incorporate internal tests and limits to insure that valid, reasonable forecasts are developed. Since logarithmic forms used in the econometric models are sometimes explosive, limits are imposed in the models assuring the quality of forecasts for all countries and regions included in the modelling system. The testing is done through an expert system. The expert system works with a number of simple rules that continuously check results against past trends in trade. Whenever a preliminary flow is assumed to be moving erratically, an alternate, more stable method is substituted.

Generally we have developed a hierarchy of choice. If there are sufficient observations, then econometric models are developed. If, however, there are insufficient degrees of freedom for accurate statistical models to be developed or if the volume of trade is particularly small or erratic, then alternative, non-econometric approaches are favored.

If an econometric model is sufficiently accurate, as judged by the Standard Error, then its forecasting accuracy is tested over the historical period (generally 1982 through 1988). The purpose of this "retrofitting" is to determine if individual country forecasts should depend upon the cross-country model results or whether they should depend, instead, upon forecasts derived from the propensity model approach which itself is typically based on the econometric model solution for imports from the world, or whether individual country forecasts should depend on a combination of methods.

To do this an average error over the period, i.e., the cumulative average percentage deviation of the forecast from the actual, for each reporter is estimated. The pooled cross-sectional model technique allows for the easy separation of each of the 21 OECD non-Asian reporters once the multi-country model is estimated. If the standard error for country *i* from region *d* for product *k* is over a maximum limit, MaxError, then the stochastic propensity method is used instead of the econometric method. When the standard error for the country is less than MaxError, but greater than MinError, a weighted combination of the non-econometrically determined estimate of trade and the econometrically determined estimate of trade is used. The formula used to fix the weight is:

$$\text{ADJUST} = (\text{Standard Error} - \text{MinError}) / (\text{MaxError} - \text{MinError})$$

From this formula we can see that if the Standard Error for the equation is close to low error, then the majority of the influence will be derived from the econometric specification. If, on the other hand, the Standard Error is closer to the MaxError then the opposite is the case.

If the standard error of the equation is less than the MinError, then only the forecast from the econometric model, adjusted by the estimated standard error for the flow is utilized. In this case the forecast then depends solely on the econometric results.

Integration of Import and Export Estimates

This marks the end of the first stage of forecast development where preliminary forecasts of exports and imports are developed. In the second stage these preliminary, independent estimates are merged to yield a jointly consistent forecast. The sum of the parts in the model – i.e., the demand by regions – is compared to the demand estimated by the model's equations from the OECD, the LDC's and the world. For each commodity these other estimates serve as additional information and are averaged with the forecasts developed by summing the regional values. Moreover, the model methodology calls for the merging of information on demand and supply from the export and the import models. For intra-OECD trade, the import demand forecast serves as the template and the export supply models are used to measure market share among the export sources. Through a series of steps the export and import estimates for countries and regions are merged together.

The DRI World Trade Modelling System fits together structurally, not through a set of interlocking bilateral relationships, but through a set of interrelated regional/country relationships. Thus the sum of the imports of 21 OECD reporters from the U.S. are one element in the model, as is the sum of the imports of the 21 OECD reporters from Northern Europe. The sum of imports of the 21 OECD reporters from the entire set of OECD countries is a third element. Total exports of the United States to OECD nations, for example, measured through reporter imports alone then is the sum of elements of each country from the United States.

Consistency is gained through the integration of export and import data. American imports, from members of the European Community, are the exports of the individual countries in the EC to the United States. Of course finding a consistent joint solution requires the model to make some assumptions about precedence. In general the model structure gives greater credence to forecasts of imports than it does to forecasts of exports. Moreover, exports are generally measured initially as export shares which are then linked to estimates for total imports.

At an intermediate stage in this process we may have an estimate of U.S. imports from Northern Europe based on the import demand equation; and also an estimate based on the Northern European share of total U.S. imports from the 21 OECD reporters. The latter is based on the export model. During the integration phase differences are resolved. In general, a 75 percent weight is given to the import; model outcome and a 25 percent weight to the outcome developed using the export market share approach.

Summary

World Trade Models thus are based on an integrated framework that analyzes trade flows for 24 countries with more than 27 distinct regions/countries. This information is derived from a total data sample of 24 reporters with more than 200 individual partners.

Commodity specific forecasts are developed based on a combined econometric and average propensity framework where exports and import flows are fully integrated to insure global consistency. All forecasts incorporate the latest forecasts of macroeconomic variables related to patterns of trade appropriate to the commodity being traded.

Where later trade data is available, it is folded into the forecasts to insure that estimates for the current year reflect the latest trends in trade. In general, however, the models are designed to pick up long term trends in trade both for exports and imports.

While DRI analysts strive to develop the most appropriate forecasts for foreign trade, and while model developed forecasts are sometimes adjusted to reflect analysts' opinions and other information not easily integrated into quantitative models, forecasts are based mainly on statistical models of trade and are thus subject to some error. Where other information is available, baseline forecasts are adjusted to reflect the latest trends in trade and other factors that are not able to be properly modelled, such as imports of automobiles from South Korea or auto parts from Japan, using generalized econometric techniques.

III. Methodology Used In Developing: World Fleet Forecast

Introduction:

The demand side used for forecasting ships in the World Fleet Forecast Service (WFFS) is supplied by the World Sea Trade Service (WSTS). The WSTS methodology is described earlier in this chapter. WSTS produces trade forecasts by commodity and by trade route and these forecasts are then combined with ship characteristics and ship movement data to produce a fleet forecast by vessel type and by route. To produce the fleet forecast, the model goes through the following steps:

1. The WSTS forecast is allocated to the 34 vessel types and sizes in the WFFS system by trade route. (See Appendix A3 for a list of these vessel types and sizes.)
2. For each trade route, the model sums the trade moving for each vessel type to produce the total amount of trade moving on each trade route by vessel type.
3. The capacity (in DWT) needed to carry the cargo by trade route and by vessel type is then computed.
4. The number of voyages needed to carry the computed capacity is then calculated.
5. The number of voyages is converted to shipyears to give an approximation of the number of ships needed to carry the cargo per year.
6. Finally, the shipyears are adjusted to account for ballast voyages or voyages needed to reposition ships.

Each one of these steps, as well as the inputs to the model, is discussed in more detail below.

Model Inputs

The two areas of model inputs are the WSTS cargo forecasts and the ship characteristics and movements files. WSTS forecasts trade by 40 commodity categories for approximately 700 trade routes. A list of the commodity categories and trade routes can be found in the Appendix. For the purposes of this project, only the U.S. routes were used; however, it must be noted that to forecast U.S. trade, one must look at world trade to see how the U.S. competes with other countries. WSTS embodies this global approach.

The ship characteristics data are based on 1987 observed characteristics. They are collected by trade route and cover the following concepts:

Ship Capacity:

Total observed DWT capacity by shiptype traveling on each trade route for the year 1987.

Maximum Load Factors:

The percent of the DWT capacity which can be used for allocation of cargo.

Number of Voyages:

The observed voyages by shiptype on a particular route in 1987. In the case where a ship travels to more than one region on a trip (i.e., leaves Rotterdam and travels to Halifax and Boston before returning to Europe), the number of voyages depends on the number of regions in which the ship stops. In the Rotterdam to Halifax and Boston case, one voyage would be recorded for North Europe to East Canada and one voyage would be recorded for North Europe to North Atlantic U.S. So as not to forecast a surplus of ships in such cases of multiple voyages being recorded on one trip, a reallocation factor is calculated as described below.

Time Spent in Port:

Average number of days spent in port in each region.

Average Design Speed:

Design speed based on Lloyd's Registry data.

Average Actual Speed:

Average speed observed by vessels traveling on the route.

Distance:

Number of miles from coast A to coast B for the route. This number may differ by vessel type for a route depending on the routing of the particular vessel type (i.e., some of the large vessels may not be able to go through a canal and must take a longer routing).

Canal Days:

Number of days waiting to pass through a canal.

Off-Hire Days:

Average days per year which a ship is off-hire. WFFS assumes 15 days per year.

Reallocation Factor:

This is a factor which compensates for a ship which may unload and load cargo at more than one WFFS region on a trip. For example, the around-the-world container ships load and unload cargo at a number of different regions on their trips around the world. If a ship moves from the Arabian Gulf to the U.S. Gulf coast and unloads all its cargo on the U.S. Gulf coast, the reallocation factor is 1.0. If it unloads 50 percent of the cargo on the Gulf coast and 50 percent of the cargo on the South Atlantic coast, the reallocation figure would be .5 on the Arabian Gulf to U.S. Gulf route, as well as the Arabian Gulf to South Atlantic Coast.

The above factors constitute the inputs to the WFFS model.

Model Structure**Step 1**

The first step in producing the fleet forecast is to allocate the 40 WSTS commodities across the 34 WFFS shiptypes. This is done for each route in the WFFS system and for each year being forecast. The shiptype allocation is based on historical data when available and industry knowledge of particular routes if shiptype data is not available. Lloyd's Maritime Information Services provides the expertise on the shiptype allocations. A matrix is produced for each route for each year which looks similar to the example below:

Commodity	Ship Type/Size									
	AA	AB	AC	AD	AE	AF	BA	DA	DB	....
WSTS 1	300	0	20	0	500	0	0	0	0	....
WSTS 2	20	0	500	0	0	0	2000	0	0	....
WSTS 3	5	6	0	0	0	0	50	0	0	....

The letters in the example above represent the different shiptypes and the commodities are the 40 WSTS commodity categories. The full list of ship codes is in the Appendix, A3.

Step 2

Each of the allocation matrices is summed to produce a total amount of cargo being carried by shiptype. The total cargo by shiptype in 1987 (the base year for the ship characteristics data) is compared with the shiptype capacity on each route to be sure that more cargo has not been allocated than capacity is available. If there is not enough capacity on a shiptype to carry the allocated cargo, the cargo allocation in Step 1 is reviewed for that route and adjusted accordingly.

At this step, certain productivity changes can be introduced in the forecast years. In this study it was assumed that 15 percent of the cargo on general cargo ships would move to containerized ships in the forecast period. It was also assumed that cargo would tend to move from smaller ships to larger ships in the forecast years. Adjustments can be made for an individual route based on knowledge of port channels being deepened or better container handling facilities being added to a port in a specific year. The change can be made by re-adjusting the cargo in the forecast years. For example, if it is known that a port is deepening its channel in 1998 to allow larger bulk ships to service the port, the adjustment can be made as follows:

$$\begin{aligned}\text{Route X [DF,2000]} &= \text{Route X [DF, 2000]} + (\text{Route X [DE, 2000]} \div .15) \\ \text{Route X [DE,2000]} &= \text{Route X [DE, 2000]} * .85\end{aligned}$$

In the above example, 15 percent of the cargo which had historically been carried on shiptype DE (Bulk Carriers of 100,000-175,000 DWT) is moved to shiptype DF (Bulk Carriers over 175,000 DWT) for the year 2000 which is the year when the channel on Route X can handle the ships with the deeper draft.

Step 3

Once the cargo has been allocated by shiptype by trade route by year, the total capacity needed to carry that cargo can be calculated. The capacity required depends on a key assumption – capacity utilization. Different scenarios can be run using different capacity utilization assumptions. In this study a 90 percent capacity utilization assumption was used. Therefore, for each shiptype on each route for each year:

$$\text{Required Capacity} = (\text{Cargo} / .90) / \text{Maximum Load Factor}$$

The maximum load factor is the percent of DWT capacity (by shiptype) which can be used for cargo. The required capacity computed above is the true DWT capacity needed to carry the allocated cargo at a 90 percent capacity utilization rate.

Step 4

The next step is to calculate the number of voyages needed to carry the allocated cargo. The assumption is made that the ratio of observed voyages by shiptype by route in 1987 to the observed capacity will hold throughout the forecast period. This assumes, therefore, that the size of the ships within a shiptype do not change throughout the forecast period, since capacity per voyage is actually the capacity or size of an average ship. This assumption can be varied to accommodate larger ships being built in the future. Therefore, for a single route, single year, and single shiptype:

$$\text{Forecasted Voyages} = \text{Forecasted Capacity} * (1987 \text{ Voyages}/1987 \text{ Capacity})$$

Step 5

Once the voyages are forecasted, the number of shipyears required to make those voyages can be calculated. A shipyear can be defined in terms of the distance a ship can travel in one year. This distance will vary as a function of:

- speed
- time in port
- off-hire days
- days spent waiting to go through a canal

Conversely, one can look at the number of shipyears required to travel a specific distance. Since the WFFS system is a route based model, it looks at the number of shipyears by shiptype on each route as follows:

1. Calculate the number of days or one voyage for each route

$$\begin{aligned} \# \text{ days per voyage} = & .5 * \text{Time on Coast A} + \\ & .5 * \text{Time on Coast B} + \\ & \text{Canal Days (if applicable)} + \\ & (\text{Distance in Miles}/\text{Avg Actual Speed in Miles per Day}) \end{aligned}$$

2. Calculate number of shipyears per voyage

$$\# \text{ shipyears per voyage} = \# \text{ days per voyage} / (365 \text{ days per year} - \text{Off-Hire Days})$$

3. Calculate the number of shipyears on each route

$$\text{shipyears} = \text{shipyears per voyage} * \# \text{ of voyages}$$

Thus, the total shipyears on each route for each shiptype is calculated, which is to say the total number of active ships needed to carry the cargo during the specific year on each route.

At this point, the shipyears and forecasted capacity are adjusted by multiplying by the reallocation factor to compensate for ships loading and unloading in more than one WFFS region on a trip. An example of this is a ship traveling from the Arabian Gulf and unloading half its cargo in the U.S. Gulf Coast region and half its cargo in the U.S. South Atlantic region. Both the shipyears and capacity for the Arabian Gulf to U.S. Gulf and Arabian Gulf to South Atlantic would be multiplied by .5.

Step 6

When looking at ship movements, it is apparent that not all ships are fully loaded. A ship carrying oil from the Arabian Gulf to the U.S. may return to the Arabian Gulf without any cargo or in ballast to reposition itself for the next load of oil. Similarly, some ships sail on triangular routes or use random tramping patterns. WFFS does a final "ballast adjustment" to address the different shipping patterns.

It is assumed that the patterns observed in 1987 are representative of what will occur in the future. Since 1987, shipyears are calculated from observed voyages, WFFS compares 1987 shipyears with forecasted shipyears by route pairs. Each route pair consists of the inbound and outbound voyage from a specific WFFS region to a specific WFFS region. Therefore, Northeast Coast of the U.S. outbound to Northern Europe is paired with Northeast Coast of the U.S. inbound from Northern Europe. This pair match is made for all the routes in the WFFS system. The 1987 ratio of shiptypes on each route pair is maintained by adding shipyears to the forecast years to maintain that ratio. For example, if for large tankers the model showed:

1987	Arabian Gulf to U.S. Gulf Coast as 10 Shipyears U.S. Gulf to Arabian Gulf as 8 Shipyears
1995	Arabian Gulf to U.S. Gulf Coast was forecasted as 20 Shipyears U.S. Gulf Coast to Arabian Gulf was forecasted as 0 Shipyears

The 1995 U.S. Gulf Coast to Arabian Gulf large tankers would be adjusted to 16 to maintain the 1987 ratio. The number of voyages and capacity would be adjusted as well to reflect the added ships.

Output

The tables in this report are organized to provide for the user an easy to use reference document. The sections are:

Total U. S. Tables:	A summary for the entire U.S.
Northeast Coast:	Northeast ports including the Great Lakes and ports through Norfolk

Southeast Coast:	Ports south of Norfolk thru Miami but not including Puerto Rico or U.S. Virgin Islands
Gulf Coast:	Ports west of Miami on the Gulf thru Texas
Northwest Coast:	Ports in Alaska, Washington, and Oregon
Southwest Coast:	Ports in California and Hawaii

Draft Tables

Only international trade and ship movements are included; therefore, oil movements from Alaska to the U.S. Gulf Coast are not included in this study.

In the Total U.S. Tables section, the data are presented in three types of formats:

1. Comparison of Ship Years, Cargo and Capacity On All U.S. Routes
2. Comparison of Ship Years, Cargo and Capacity For All Shiptypes
3. Comparison of Vessel Capacity Required and Vessel Capacity Available For All Shipyears

Format 1: Comparison of Ship Years, Cargo and Capacity On All U.S. Routes

Format 1 displays the data on all the U.S. Routes by the 34 shiptypes. The 34 shiptypes appear in the first left hand column with a total for all the shiptypes on the bottom. The total represents all the ships on all the U.S. routes (both inbound and outbound). The columns to the right of the first column represent the Shipyears, Cargo, and Capacity for 1987, which is the base year, and then for the years 1995, 2000, 2010, 2020.

Shipyears are the total number of shipyears for each shiptype on all U.S. routes or for the purpose of this study, the total number of ships needed to transport the cargo on the U.S. routes. This excludes idle ships and ships not involved in international trading.

Cargo is the total amount of cargo in thousands of metric tons moved by each shiptype on U.S. routes. This cargo has been allocated to the 34 shiptypes as discussed in the methodology section.

Capacity is the total DWT capacity by shiptype found on all the U.S. routes. If a ship travels to more than one coastal region on a trip, the Capacity is adjusted using the reallocation factor discussed in the methodology section.

Format 2: Comparison of Vessel Capacity Required and Vessel Capacity Available For All Shiptypes

Format 2 shows individual routes for all the shiptypes. The columns in this report are the same as in Format 1 except for the first column which includes the individual routes. The number in parenthesis beside each route is the route code used in the WFFS system. These tables are organized by U.S. Coast with the total for the coast and the total for the U.S. at the bottom of each table.

The sections of the report for the individual coasts use Format 2 by each of the 34 shiptypes. Thus, one can look at General Cargo Ships Greater than 10,000 DWT for each of the routes on the U. S. Northeast Coast in the U.S. Northeast Coast Section.

Format 3: Comparison of Vessel Capacity Required and Vessel Capacity Available For All Shiptypes

There is a table for each year for Format 3 (1987, 1995, 2000, 2010, 2020). This format displays vessel requirements and availability by route for all of the shiptypes. The first column contains all the U.S. routes with a total at the bottom. The second column reports the cargo carried in metric tons and should reflect the same numbers found in Format 2.

The voyages in the third column are the observed voyages for all shiptypes on the particular route in 1987 and in the tables showing the forecasted years, this column represents the forecasted voyages. A voyage is considered to be the movement of a ship from one WFFS region to another WFFS region. In the case of the U.S., a ship may stop at the ports of New York, Baltimore, and Charlestown, S.C., before traveling to Northern Europe. If this occurs, WFFS counts one voyage from the U.S. Northeast Coast to Northern Europe and one voyage from the U.S. Southeast Coast to Northern Europe.

The column for shipyears is the total number of shipyears by route as defined in Format 1 and Format 2 tables.

Capacity Utilization is simply Cargo (column 2) divided by Capacity as defined in Format 1 and Format 2. This gives an indication of how full the ships are loaded and if the particular route is primarily a ballast leg for the ship.

The Vessel Capacity Available from the 1987 Fleet column refer to the total shipyears available by shiptype by route for all the ships servicing that particular route in 1987. The ages of the ships from the 1987 fleet are contained in columns seven through eleven in

intervals of five years. The assumption is made that in the forecasted years, the age profile of ships on a route will remain the same as 1987 profile. The required constructions column refers to the number of ships that must be constructed to fill the gap between the 1987 fleet and new ships being needed in the forecasted years. Ships are deleted from the fleet after reaching 25 years of age at the rate of 20 percent per year with no ship remaining after the age of 30 years. Obviously, in the year 2010 and 2020 there are no ships left from the 1987 fleet if this assumption is used.

IV. Fleet Forecast Tables

SHIP TYPE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
General Cargo - Greater than 10,000 DWT (AA)	337	23,476	71,839	209	28,449	56,451	263	35,612	71,071	379	47,876	102,531	525	63,438	141,863					
General Cargo - Less than 10,000 DWT (AB)	184	3,657	15,320	75	3,149	6,058	89	3,734	7,111	129	5,029	10,024	185	6,790	14,132					
Container - Greater than 10,000 DWT (AC)	270	59,769	113,874	361	94,216	161,096	459	118,600	206,262	668	166,153	300,229	907	234,546	408,474					
Container - Less than 10,000 DWT (AD)	36	1,706	4,782	52	4,857	7,566	59	5,803	8,573	77	7,521	11,002	111	9,845	15,225					
RoRo - Greater than 10,000 DWT (AE)	100	9,293	38,142	60	15,818	33,720	70	19,444	40,712	92	26,383	55,502	124	35,388	75,361					
RoRo - Less than 10,000 DWT (AF)	127	2,502	11,441	68	3,517	6,849	76	4,199	7,616	90	5,433	8,590	108	6,896	10,690					
Bulk Carriers - Less than 20,000 DWT (DA)	82	5,982	15,269	84	8,312	16,982	88	8,915	18,008	99	9,603	19,071	109	10,934	21,991					
Bulk Carriers - 20,000 to 40,000 DWT (DB)	66	87,212	203,137	558	111,011	203,615	628	122,762	232,001	673	128,477	253,447	752	137,203	287,952					
Bulk Carriers - 40,000 to 80,000 DWT (DC)	391	84,816	193,869	328	107,517	204,354	369	119,897	230,207	354	119,065	228,221	351	117,619	225,577					
Bulk Carriers - 80,000 to 100,000 DWT (DD)	6	3,792	5,948	16	20,515	29,809	18	22,677	32,912	17	22,361	32,556	17	22,827	32,219					
Bulk Carriers - 100,000 to 175,000 DWT (DE)	43	25,011	55,271	38	31,318	56,274	44	35,695	65,653	43	34,324	68,238	42	32,948	70,850					
Bulk Carriers - Greater than 175,000 DWT (DF)	2	669	3,119	3	7,332	11,062	3	8,043	12,477	3	7,363	12,435	3	6,618	12,472					
Combination Carriers - Less than 20,000 DWT (EA)	1	177	456	1	1,16	2,869	1	127	250	1	90	196	1	60	140					
Combination Carriers - 20,000 to 40,000 DWT (EB)	1	32	28	0	11	32,061	0	57	181	0	43	141	0	30	102					
Combination Carriers - 40,000 to 80,000 DWT (EC)	33	16,526	29,815	28	16,110	15,898	29	16,256	32,997	27	14,850	31,485	24	13,432	28,883					
Combination Carriers - 80,000 to 100,000 DWT (ED)	7	5,089	8,448	11	8,540	15,898	11	9,199	16,824	11	9,121	16,753	11	8,688	16,358					
Combination Carriers - 100,000 to 175,000 DWT (EE)	25	16,463	36,876	20	23,214	40,753	22	25,757	46,253	24	27,170	52,149	26	28,748	57,805					
Combination Carriers - Greater than 175,000 DWT (EF)	0	203	565	1	4,616	5,410	1	5,261	6,155	1	5,895	6,897	2	6,993	7,713					
Tankers - Less than 10,000 DWT (FA)	54	4,432	6,566	95	5,819	9,172	115	6,360	11,192	163	7,674	16,272	233	9,406	20,379					
Tankers - 10,000 to 40,000 DWT (FB)	295	57,310	113,686	449	88,913	168,596	491	99,642	184,548	548	115,683	214,393	684	147,117	270,619					
Tankers - 40,000 to 80,000 DWT (FC)	86	29,704	65,984	103	46,717	78,561	121	52,707	90,542	134	61,848	104,145	166	75,151	129,619					
Tankers - 80,000 to 100,000 DWT (FD)	95	43,275	112,339	83	44,211	78,020	66	48,056	83,244	66	52,550	89,900	169	58,172	98,715					
Tankers - 100,000 to 175,000 DWT (FE)	86	48,330	113,437	80	85,212	145,146	99	106,191	179,040	133	143,821	238,940	169	183,327	302,865					
Tankers - 175,000 to 250,000 DWT (FF)	16	1,226	29,728	20	15,510	24,534	3	19,474	24,534	3	26,569	33,550	4	33,008	43,005					
Tankers - Greater than 250,000 DWT (FG)	26	29,156	73,646	53	67,915	128,838	67	84,775	160,555	94	115,564	217,925	122	147,902	278,039					
Product Tankers - Less than 10,000 DWT (PA)	19	737	2,017	28	1,012	3,004	33	1,209	3,630	38	1,534	4,325	44	2,054	5,157					
Product Tankers - 10,000 to 40,000 DWT (PB)	4	148	4,671	22	4,018	7,740	23	4,347	7,740	25	5,022	8,573	30	6,171	10,414					
Product Tankers - 40,000 to 80,000 DWT (PC)	76	26,612	57,511	96	35,219	74,004	104	38,712	80,731	113	42,531	90,483	133	49,436	107,059					
Product Tankers - 80,000 to 100,000 DWT (PD)	20	11,023	26,428	31	17,812	40,945	33	19,367	43,702	38	22,862	50,894	46	29,968	66,826					
Product Tankers - 100,000 to 175,000 DWT (PE)	2	1,428	3,457	4	7,715	12,240	4	9,967	14,746	5	14,280	19,736	5	19,276	25,724					
Product Tankers - 175,000 to 250,000 DWT (PF)	0	0	0	0	1,015	1,175	0	1,365	1,596	0	2,036	2,381	0	2,797	3,271					
Product Tankers - Greater than 250,000 DWT (PG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Reefer (BA)	108	4,151	16,305	172	7,726	30,897	179	8,281	32,346	205	9,431	38,043	228	10,349	42,874					
Gas Tankers (GA)	70	3,540	21,365	49	5,115	22,894	56	6,747	29,378	64	9,384	39,007	86	12,788	52,852					
Vehicle Carriers (HB)	266	3,730	51,989	216	3,517	91,054	224	3,975	95,338	227	3,899	99,251	230	3,848	105,936					
Other Ships (HX)	121	4,312	39,929	104	8,013	24,083	134	9,808	28,048	179	12,739	35,395	220	16,255	43,535					
TOTAL	3,671	619,490	1,596,686	3,481	935,016	1,823,660	3,984	1,082,951	2,105,613	4,724	1,284,004	2,512,924	5,776	1,547,829	3,031,465					

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shiptypes
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	26	2,899	11,575	16	4,926	8,940	17	5,090	9,113	17	5,240	9,021	17	5,341	9,019
Northern Europe to U.S. Southeast Coast (0802)	26	3,209	11,116	16	4,406	10,257	17	4,771	10,428	17	5,378	11,187	17	6,326	12,268
U.S. Southeast Coast to Southern Europe (0209)	16	1,029	5,032	8	1,772	3,199	9	1,827	3,731	13	1,663	5,177	19	1,662	7,036
Southern Europe to U.S. Southeast Coast (0902)	17	2,159	11,350	11	4,715	5,874	13	5,717	8,162	17	8,354	10,518	22	10,944	13,774
U.S. Southeast Coast to Japan (0210)	24	1,258	5,242	19	2,312	7,337	19	2,474	6,050	18	2,452	5,705	17	2,484	5,404
Japan to U.S. Southeast Coast (1002)	32	1,447	7,541	23	1,317	7,337	23	1,465	7,558	20	1,563	6,523	18	1,901	5,794
U.S. Southeast Coast to Australia/New Zealand (0211)	7	131	1,980	2	199	669	2	274	756	3	349	854	3	442	944
Australia/New Zealand to U.S. Southeast Coast (1102)	3	505	1,980	1	572	754	1	616	793	1	642	832	2	619	813
U.S. Southeast Coast to Far East NIC's (0212)	13	1,167	3,483	16	3,678	6,248	25	6,159	9,948	45	11,042	17,537	71	17,868	27,862
Far East NIC's to U.S. Southeast Coast (1202)	9	898	2,811	12	3,785	5,395	20	6,917	8,634	35	1,147	14,930	55	1,445	23,137
U.S. Southeast Coast to South America East Coast (0213)	113	4,746	21,088	85	6,543	23,962	94	8,962	28,324	123	12,559	33,050	169	18,801	42,613
South America East Coast to U.S. Southeast Coast (1302)	94	13,979	20,758	71	16,199	23,568	79	16,721	25,905	102	18,328	32,627	138	20,354	42,098
U.S. Southeast Coast to South America West Coast (0214)	15	561	2,973	28	563	9,902	29	689	10,413	32	991	11,384	34	1,357	11,961
South America West Coast to U.S. Southeast Coast (1402)	12	5,340	6,362	19	7,391	9,641	21	8,742	11,416	23	10,327	13,651	26	11,573	15,556
U.S. Southeast Coast to East Africa (0215)	2	2	663	0	5	7	0	5	7	0	5	7	0	4	6
East Africa to U.S. Southeast Coast (1502)	1	9	489	0	3	7	0	2	7	0	1	6	0	0	6
U.S. Southeast Coast to West Africa (0216)	2	80	425	1	181	244	1	183	247	1	149	225	1	110	247
West Africa to U.S. Southeast Coast (1602)	11	4,248	18,096	7	10,694	12,653	9	13,451	15,859	12	18,633	21,879	15	23,761	27,849
U.S. Southeast Coast to South Africa (0217)	2	74	415	2	136	798	2	197	836	2	264	934	2	270	1,023
South Africa to U.S. Southeast Coast (1702)	1	99	175	1	4,115	4,845	1	5,816	6,699	1	8,441	10,504	1	12,538	14,716
U.S. Southeast Coast to Arabian Gulf (0218)	10	336	3,010	17	744	5,162	22	965	6,699	30	1,471	8,711	40	2,186	11,545
Arabian Gulf to U.S. Southeast Coast (1802)	6	572	4,157	38	9,645	12,914	47	11,904	16,001	61	15,245	20,690	79	19,475	26,622
U.S. Southeast Coast to Other Med (0219)	11	558	3,499	6	713	2,669	8	1,120	3,385	11	1,547	4,525	14	1,974	6,070
Other Med to U.S. Southeast Coast (1902)	4	531	4,149	2	1,200	1,762	2	1,482	2,187	3	2,026	2,975	4	2,701	3,938
U.S. Southeast Coast to China (0221)	3	447	533	5	1,170	1,551	8	2,131	2,791	15	3,214	4,854	24	5,931	7,720
China to U.S. Southeast Coast (2102)	2	53	460	2	111	504	3	149	651	5	214	1,514	8	2,808	2,478
U.S. Southeast Coast to South East Asia (0222)	14	304	3,204	9	703	1,786	10	1,168	2,316	13	1,916	3,283	17	2,808	4,485
South East Asia to U.S. Southeast Coast (2202)	13	711	3,246	10	1,602	2,641	12	1,592	2,436	15	1,730	2,736	19	1,970	2,349
U.S. Southeast Coast to Indian Sub-Continent (0223)	5	123	1,195	5	414	1,221	6	523	1,519	8	764	1,927	9	1,054	2,349
Indian Sub-Continent to U.S. Southeast Coast (2302)	2	58	491	1	416	684	2	505	782	2	580	1,016	3	637	1,325
Total - U.S. Southeast Coast Routes	493	47,531	156,140	434	87,217	172,094	503	105,617	202,621	645	137,754	260,782	844	176,814	334,891
Total - US Routes	3,671	619,490	1,596,686	3,481	935,036	1,823,660	3,984	1,082,951	2,105,613	4,724	1,284,004	2,512,924	5,776	1,547,829	3,031,465

4/24/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shippers
On U.S. Gulf Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Gulf Coast to Northern Europe (0308)	98	27,373	42,129	68	27,412	37,115	65	26,225	35,743	59	24,779	34,196	58	26,103	34,196	58	26,103	34,196		
Northern Europe to U.S. Gulf Coast (0803)	91	11,833	38,563	68	13,635	40,043	65	14,098	37,296	54	13,661	35,229	52	13,323	35,229	52	13,323	35,229		
U.S. Gulf Coast to Southern Europe (0309)	66	13,396	30,366	37	12,557	16,501	38	12,206	16,677	29	8,190	12,593	29	7,055	12,593	29	7,055	12,593		
Southern Europe to U.S. Gulf Coast (0903)	48	4,060	26,498	27	4,116	16,568	28	4,912	16,787	21	5,679	12,546	21	6,533	12,546	21	6,533	12,546		
U.S. Gulf Coast to Japan (0310)	81	21,736	30,779	45	17,752	25,013	44	17,722	24,787	32	12,132	17,246	26	7,965	17,246	26	7,965	17,246		
Japan to U.S. Gulf Coast (1003)	39	2,611	11,085	22	2,444	8,340	22	2,473	8,785	17	1,877	6,508	15	1,786	6,508	15	1,786	6,508		
U.S. Gulf Coast to Australia/New Zealand (0311)	12	999	3,078	24	2,012	5,797	27	2,861	6,785	41	4,259	10,139	61	6,316	10,139	61	6,316	10,139		
Australia/New Zealand to U.S. Gulf Coast (1103)	9	3,080	3,651	17	8,940	12,152	18	9,501	13,183	27	14,006	19,808	39	19,696	19,808	39	19,696	19,808		
U.S. Gulf Coast to Far East NIC's (0312)	46	11,094	15,185	40	12,096	15,035	60	17,430	21,584	88	24,042	29,800	128	33,090	29,800	128	33,090	29,800		
Far East NIC's to U.S. Gulf Coast (1203)	12	575	3,152	10	343	3,892	17	376	6,127	29	373	9,971	47	378	9,971	47	378	9,971		
U.S. Gulf Coast to South America East Coast (0313)	276	18,854	87,797	211	20,225	84,344	227	22,412	85,061	256	23,107	79,887	321	28,390	79,887	321	28,390	79,887		
South America East Coast to U.S. Gulf Coast (1303)	208	61,881	137,628	171	70,050	94,124	186	67,782	95,287	223	61,308	89,083	293	56,162	89,083	293	56,162	89,083		
U.S. Gulf Coast to South America West Coast (0314)	32	3,640	8,292	34	4,011	9,599	36	4,597	10,691	42	6,379	13,702	53	9,855	13,702	53	9,855	13,702		
South America West Coast to U.S. Gulf Coast (1403)	21	6,307	8,258	27	10,229	13,789	31	12,975	17,196	42	18,243	23,865	55	23,199	23,865	55	23,199	23,865		
U.S. Gulf Coast to East Africa (0315)	8	390	2,169	1	281	392	1	266	378	1	175	294	1	141	294	1	141	294		
East Africa to U.S. Gulf Coast (1503)	4	26	2,388	0	44	121	0	40	121	0	40	117	0	36	117	0	36	117		
U.S. Gulf Coast to West Africa (0316)	12	1,491	6,235	9	1,599	6,326	11	1,771	7,652	12	1,679	9,643	13	1,520	9,643	13	1,520	9,643		
West Africa to U.S. Gulf Coast (1603)	26	17,694	29,770	26	27,568	37,082	30	33,618	44,819	34	44,300	56,349	38	55,188	56,349	38	55,188	56,349		
U.S. Gulf Coast to South Africa (0317)	9	821	4,011	13	846	12,758	17	903	17,725	24	885	26,771	32	917	26,771	32	917	26,771		
South Africa to U.S. Gulf Coast (1703)	6	1,523	2,193	10	12,379	14,769	13	17,421	20,667	18	26,663	31,497	24	37,317	31,497	24	37,317	31,497		
U.S. Gulf Coast to Arabian Gulf (0318)	31	4,216	12,617	77	4,162	62,402	87	3,992	77,718	88	3,499	100,958	108	4,148	100,958	108	4,148	100,958		
Arabian Gulf to U.S. Gulf Coast (1803)	24	22,105	28,384	100	81,638	98,972	109	99,787	120,375	97	124,884	149,263	111	158,849	149,263	111	158,849	149,263		
U.S. Gulf Coast to Other Med (0319)	31	10,241	15,082	37	15,161	22,380	48	20,091	29,323	58	20,013	33,129	75	16,218	33,129	75	16,218	33,129		
Other Med to U.S. Gulf Coast (1903)	23	8,607	16,608	31	14,508	23,254	40	18,798	30,405	53	26,035	39,177	71	34,869	39,177	71	34,869	39,177		
U.S. Gulf Coast to China (0321)	11	2,475	2,545	54	9,280	14,730	65	10,214	16,741	75	10,190	18,162	82	8,754	18,162	82	8,754	18,162		
China to U.S. Gulf Coast (2103)	7	780	2,493	12	2,073	3,651	11	1,971	3,552	13	1,699	3,462	13	1,665	3,462	13	1,665	3,462		
U.S. Gulf Coast to South East Asia (0322)	38	1,241	9,018	17	3,847	7,609	22	6,476	11,207	27	7,214	12,620	30	6,628	12,620	30	6,628	12,620		
South East Asia to U.S. Gulf Coast (2203)	30	5,090	10,825	15	3,664	7,504	21	3,763	9,774	23	3,955	11,304	24	4,329	11,304	24	4,329	11,304		
U.S. Gulf Coast to Indian Sub-Continent (0323)	13	1,033	3,012	38	2,374	6,055	48	3,506	8,101	63	6,176	11,893	82	10,032	11,893	82	10,032	11,893		
Indian Sub-Continent to U.S. Gulf Coast (2303)	9	1,469	2,799	22	1,911	3,517	28	2,218	4,529	35	2,482	6,345	44	2,663	6,345	44	2,663	6,345		
Total - U.S. Gulf Coast Routes	1,321	285,640	596,629	1,262	387,157	703,875	1,415	440,406	796,838	1,579	497,764	905,355	1,945	583,127	905,355	1,945	583,127	905,355		
Total - US Routes	3,671	619,490	1,596,686	3,481	935,036	1,823,660	3,984	1,082,951	2,105,613	4,724	1,284,004	2,512,924	5,776	1,547,829	2,512,924	5,776	1,547,829	2,512,924		

Total - US Routes

ROUTE	1987				On U.S. Southwest Coast Routes				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S.S. Southwest Coast to Northern Europe (0408)	23	2,941	7,990	17	4,440	6,129	11	2,844	4,025	13	3,414	4,583	15	4,149	5,462					
Northern Europe to U.S. Southwest Coast (0804)	27	2,204	8,247	17	2,207	6,196	16	2,315	5,443	15	2,370	5,028	14	2,580	4,883					
U.S.S. Southwest Coast to Southern Europe (0409)	9	955	2,953	4	401	1,258	4	1,397	1,462	6	2,304	2,025	7	2,258	2,658					
Southern Europe to U.S. Southwest Coast (0904)	9	609	2,947	4	1,277	1,636	4	1,518	1,462	6	2,187	2,782	7	2,890	3,673					
U.S.S. Southwest Coast to Japan (0410)	77	10,514	24,205	71	12,795	30,241	72	14,150	31,302	67	15,029	39,014	61	15,999	28,352					
Japan to U.S. Southwest Coast (1004)	72	5,846	39,118	59	7,072	32,161	60	7,625	33,132	56	8,184	31,058	53	9,800	29,256					
U.S.S. Southwest Coast to Australia/New Zealand (0411)	9	1,281	3,277	8	1,661	3,766	10	1,928	4,381	13	2,157	5,897	14	2,659	7,729					
Australia/New Zealand to U.S. Southwest Coast (1104)	8	1,974	2,904	7	2,804	3,570	8	3,217	4,138	11	4,152	5,369	16	5,610	7,317					
U.S.S. Southwest Coast to Far East NIC's (0412)	42	7,899	18,505	44	17,302	35,701	63	24,585	34,692	105	39,828	56,735	136	63,168	74,040					
Far East NIC's to U.S. Southwest Coast (1204)	41	10,529	20,667	38	8,779	19,169	55	10,522	27,948	95	13,477	48,555	128	18,164	64,205					
U.S.S. Southwest Coast to South America East Coast (0413)	88	3,862	21,082	47	4,074	13,930	47	5,211	14,313	34	3,071	9,785	28	1,952	8,355					
South America East Coast to U.S. Southwest Coast (1304)	24	3,567	7,300	11	3,173	4,754	11	2,961	4,831	9	2,595	3,569	8	2,467	3,202					
U.S.S. Southwest Coast to South America West Coast (0414)	43	221	28,655	15	133	3,696	17	1,161	4,301	22	1,154	5,765	26	1,150	7,007					
South America West Coast to U.S. Southwest Coast (1604)	38	679	28,354	15	2,250	3,586	16	2,621	4,126	21	3,523	5,460	25	4,318	6,620					
U.S.S. Southwest Coast to East Africa (0415)	1	2	134	1	4	67	0	6	34	0	14	32	0	26	36					
East Africa to U.S. Southwest Coast (1504)	0	10	30	0	5	52	0	13	83	3	1	12	0	0	0					
U.S.S. Southwest Coast to West Africa (0416)	1	47	138	0	8	52	0	28	122	0	28	122	0	47	169					
West Africa to U.S. Southwest Coast (1604)	1	18	217	0	53	75	0	85	122	0	108	170	0	138	232					
U.S.S. Southwest Coast to South Africa (0417)	2	38	422	0	95	147	0	159	217	0	214	276	0	187	276					
South Africa to U.S. Southwest Coast (1704)	1	100	359	2	24	31	0	31	39	0	36	46	0	43	55					
U.S.S. Southwest Coast to Arabian Gulf (0418)	8	178	1,796	2	116	420	2	144	528	3	182	923	3	197	618					
Arabian Gulf to U.S. Southwest Coast (1804)	9	319	4,043	2	444	692	2	557	868	3	571	923	3	571	948					
U.S.S. Southwest Coast to Other Med (0419)	17	223	4,474	80	88	219	1	115	283	1	113	428	2	136	676					
Other Med to U.S. Southwest Coast (1904)	4	109	857	1	88	117	1	85	283	1	177	232	1	280	345					
U.S.S. Southwest Coast to China (0421)	7	49	2,416	0	7	2,373	8	955	2,702	5	1,401	3,664	19	2,009	5,207					
China to U.S. Southwest Coast (2104)	8	280	3,353	4	1,072	1,890	4	1,008	2,009	12	830	1,998	7	781	2,329					
U.S.S. Southwest Coast to South East Asia (0422)	16	1,427	6,919	20	2,922	9,478	23	3,994	11,123	5	6,665	15,316	43	10,611	21,644					
South East Asia to U.S. Southwest Coast (2204)	25	7,576	12,547	22	9,675	12,531	31	10,117	13,029	31	11,424	16,536	43	13,453	21,780					
U.S.S. Southwest Coast to Indian Sub-Continent (0423)	7	392	1,346	4	782	1,123	5	1,140	1,624	8	1,696	2,507	10	2,091	3,252					
Indian Sub-Continent to U.S. Southwest Coast (2304)	3	19	876	4	65	1,127	6	1,175	1,732	10	1,86	2,807	13	96	3,786					
Total - U.S. Southwest Coast Routes	621	63,867	250,179	423	84,461	185,060	473	98,543	210,566	578	123,980	262,251	685	164,829	314,165					
Total - US Routes	3,671	619,490	1,596,686	3,481	935,036	1,823,660	3,994	1,082,951	2,105,613	4,724	1,284,004	2,512,924	5,776	1,547,829	3,031,465					

1987 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE

4/24/90

Route	For All Ship Types			Vessel Capacity Available From 1987 Fleet										Required Construction
	Cargo 000 tons	Voyages	Ship Years	Capacity Util	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	Years	Years	Years	
U.S. Northeast Coast to Northern Europe (0108)	17,338	1,475	67	0.41	67	12	23	19	10	3	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	14,730	827	39	0.60	39	5	10	13	8	3	0	0	0	0
U.S. Northeast Coast to Japan (0110)	6,563	895	46	0.47	46	16	16	11	3	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	1,187	116	11	0.07	11	2	5	2	3	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	4,582	531	25	0.62	25	8	36	29	15	8	1	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	6,857	2,110	107	0.15	107	20	4	2	3	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	488	415	19	0.08	19	3	0	2	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	68	35	3	0.04	3	0	1	1	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	200	130	9	0.02	9	1	3	4	1	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	189	77	7	0.04	7	1	3	3	1	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	742	258	17	0.10	17	2	6	5	3	1	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	4,806	433	19	0.42	19	3	6	6	4	1	0	0	0	0
U.S. Northeast Coast to China (0121)	270	29	4	0.44	4	4	1	1	1	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	407	361	26	0.05	26	8	9	7	2	1	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	974	70	8	0.50	8	5	2	2	2	0	0	0	0	0
U.S. Southeast Coast to Northern Europe (0208)	2,889	816	26	0.25	26	16	10	9	3	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	1,029	459	16	0.20	16	24	4	5	2	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	1,258	665	24	0.24	24	7	8	7	3	1	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	131	78	7	0.08	7	5	4	3	2	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	1,167	413	13	0.34	13	1	3	3	1	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	4,746	2,130	113	0.23	113	21	32	24	25	11	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	561	290	15	0.19	15	2	6	3	3	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	2	23	2	0.00	2	0	1	1	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	80	36	2	0.19	2	1	1	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	74	28	2	0.18	2	0	1	1	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	336	155	10	0.11	10	1	3	4	1	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	558	293	11	0.16	11	1	3	3	2	0	0	0	0	0
U.S. Southeast Coast to China (0221)	447	21	3	0.84	3	1	1	1	1	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	304	269	14	0.09	14	4	5	3	2	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	123	46	5	0.10	5	0	2	2	0	0	0	0	0	0
U.S. Gulf Coast to Northern Europe (0308)	27,373	1,406	98	0.65	98	17	29	32	17	3	0	0	0	0
U.S. Gulf Coast to Southern Europe (0309)	13,996	867	66	0.44	66	11	16	22	12	5	0	0	0	0
U.S. Gulf Coast to Japan (0310)	21,736	901	81	0.71	81	24	30	20	12	3	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	11,094	106	12	0.32	12	14	15	14	5	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	18,854	3,952	276	0.21	276	41	77	75	57	25	3	1	1	0
U.S. Gulf Coast to South America East Coast (0313)	3,640	479	32	0.44	32	3	7	9	10	3	1	1	1	0
U.S. Gulf Coast to South America West Coast (0314)	390	74	8	0.18	8	1	4	2	2	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	1,491	150	12	0.24	12	1	4	4	1	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	821	92	9	0.20	9	1	2	4	1	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	4,214	325	31	0.33	31	3	8	10	6	2	1	1	1	0
U.S. Gulf Coast to Arabian Gulf (0318)	10,241	416	31	0.68	31	5	7	10	4	3	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	2,475	77	11	0.96	11	3	4	3	2	0	0	0	0	0
U.S. Gulf Coast to China (0321)	1,241	245	38	0.14	38	6	14	11	4	2	1	1	1	0
U.S. Gulf Coast to South East Asia (0322)	1,033	111	13	0.34	13	2	6	5	3	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	2,941	332	23	0.37	23	9	6	6	3	0	0	0	0	0
U.S. Southwest Coast to Northern Europe (0408)	955	167	9	0.32	9	3	2	3	2	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	10,514	1,874	77	0.43	77	21	27	21	2	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	1,281	175	9	0.39	9	2	3	2	2	1	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	7,899	738	42	0.43	42	9	12	13	7	3	1	1	1	0
U.S. Southwest Coast to Far East NIC's (0412)	3,862	1,435	88	0.18	88	25	24	25	11	2	3	3	3	0
U.S. Southwest Coast to South America East Coast (0413)	221	90	43	0.01	43	8	10	17	7	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	2	9	1	0.02	1	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	47	9	1	0.34	1	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	38	22	2	0.09	2	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)														

1987 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE

4/24/90

For All Shipyards

Route	Vessel Capacity Required				Vessel Capacity Available From 1987 Fleet										Required Construction
	Cargo 000 Tons	Ship Voyages	Ship Years	Capacity Util	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25+ Years	26-29 Years	30-33 Years	34-37 Years	
U.S. Southwest Coast to Arabian Gulf (04/18)	178	80	8	0.10	8	2	3	2	1	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (04/19)	223	201	17	0.05	17	6	4	4	2	0	0	0	0	0	0
U.S. Southwest Coast to China (04/21)	49	111	7	0.02	7	1	2	2	1	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (04/22)	1,427	236	16	0.21	16	3	5	5	3	1	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (04/23)	392	59	7	0.29	7	1	1	1	1	0	0	0	0	0	0
U.S. Southwest Coast to Northern Europe (05/08)	644	128	6	0.42	6	3	3	2	1	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (05/09)	582	102	7	0.35	7	2	2	2	1	0	0	0	0	0	0
U.S. Southwest Coast to Japan (05/10)	25,689	1,928	109	0.60	109	21	43	30	13	2	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (05/11)	876	148	7	0.40	7	2	2	2	1	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (05/12)	11,934	866	39	0.70	39	14	10	10	4	2	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (05/13)	214	399	19	0.03	19	7	3	6	3	1	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (05/14)	90	295	12	0.00	12	0	1	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (05/15)	0	7	1	0.00	1	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (05/16)	0	0	0	0.00	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (05/17)	1,779	3	0	0.02	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (05/18)	884	129	10	0.47	10	2	5	3	1	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (05/19)	967	282	14	0.16	14	4	2	4	1	0	0	0	0	0	0
U.S. Southwest Coast to China (05/21)	574	177	16	0.09	16	7	3	3	1	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (05/22)	686	46	5	0.47	5	1	1	1	2	1	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (05/23)	33,120	1,995	80	0.56	80	17	26	22	11	1	0	0	0	0	0
Northern Europe to U.S. Northeast Coast (08/01)	3,209	917	26	0.29	26	6	9	7	4	1	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (08/02)	11,833	1,650	91	0.31	91	18	26	29	16	3	0	0	0	0	0
Northern Europe to U.S. Gulf Coast (08/03)	2,204	459	27	0.27	27	10	8	6	2	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (08/04)	343	162	9	0.14	9	4	2	2	1	0	0	0	0	0	0
Northern Europe to U.S. Northeast Coast (08/05)	6,738	830	39	0.32	39	6	11	12	7	3	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (09/01)	2,159	526	17	0.19	17	7	5	4	3	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (09/02)	4,060	785	48	0.15	48	7	12	17	9	3	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (09/03)	609	160	9	0.21	9	2	3	2	2	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (09/04)	121	40	3	0.12	3	0	1	1	1	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (09/05)	3,254	997	50	0.28	50	17	16	13	3	0	0	0	0	0	0
Japan to U.S. Northeast Coast (10/01)	1,447	764	32	0.19	32	11	10	9	2	0	0	0	0	0	0
Japan to U.S. Southeast Coast (10/02)	2,611	461	39	0.24	39	13	13	10	2	0	0	0	0	0	0
Japan to U.S. Gulf Coast (10/03)	5,846	2,089	72	0.15	72	22	21	21	7	1	0	0	0	0	0
Japan to U.S. Southwest Coast (10/04)	2,852	1,901	79	0.13	79	20	28	25	8	0	0	0	0	0	0
Japan to U.S. Northeast Coast (10/05)	1,429	118	8	0.60	8	3	2	1	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (11/01)	505	70	3	0.32	3	1	3	2	1	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (11/02)	3,080	134	9	0.84	9	2	3	2	1	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (11/03)	1,974	136	8	0.68	8	2	3	3	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (11/04)	2,257	157	10	0.58	10	5	3	2	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (11/05)	1,592	500	14	0.40	14	5	4	4	1	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (12/01)	898	434	9	0.32	9	4	2	2	1	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (12/02)	575	189	12	0.18	12	4	4	4	1	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (12/03)	10,529	778	41	0.56	41	12	11	12	6	1	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (12/04)	2,153	933	32	0.13	32	12	7	7	4	1	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (12/05)	41,158	1,775	84	0.75	84	16	29	22	11	2	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (13/01)	13,979	1,935	94	0.67	94	18	28	21	19	7	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (13/02)	61,881	4,117	208	0.45	208	35	64	56	36	17	0	0	0	0	0
South America East Coast to U.S. Gulf Coast (13/03)	3,567	354	24	0.49	24	9	7	7	4	2	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (13/04)	1,496	142	9	0.49	9	2	2	2	1	0	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (13/05)	6,341	462	22	0.70	22	5	9	3	3	1	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (14/01)	5,340	298	12	0.84	12	5	4	2	1	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (14/02)	6,307	400	21	0.76	21	3	5	3	2	1	0	0	0	0	0

1987 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shipyards

4/24/90

Route	Vessel Capacity Required			Vessel Capacity Available From 1987 Fleet									
	Cargo 000 Tons	Voyages	Ship Years	Capacity Util	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	Required Construction		
South America West Coast to U.S. Southwest Coast (1404)	679	874	38	0.02	38	6	10	15	7	1	0		
South America West Coast to U.S. Northwest Coast (1405)	55	267	9	0.00	9	1	2	4	2	0	0		
East Africa to U.S. Northeast Coast (1501)	54	52	4	0.02	4	1	1	2	1	0	0		
East Africa to U.S. Southeast Coast (1502)	9	17	1	0.02	1	0	0	1	0	0	0		
East Africa to U.S. Gulf Coast (1503)	26	49	3	0.01	3	0	0	2	0	0	0		
East Africa to U.S. Southwest Coast (1504)	0	10	0	0.34	0	0	0	0	0	0	0		
East Africa to U.S. Northwest Coast (1505)	301	301	20	0.00	20	2	4	11	2	0	0		
West Africa to U.S. Northeast Coast (1601)	14,713	153	11	0.23	11	0	1	8	1	0	0		
West Africa to U.S. Southeast Coast (1602)	6,248	335	26	0.59	26	1	7	14	3	0	0		
West Africa to U.S. Gulf Coast (1603)	17,694	13	1	0.08	1	0	0	0	0	0	0		
West Africa to U.S. Southwest Coast (1604)	0	1	0	0.00	0	0	0	0	0	0	0		
West Africa to U.S. Northwest Coast (1605)	3,348	70	6	0.85	6	1	1	3	1	0	0		
South Africa to U.S. Northeast Coast (1701)	99	8	1	0.57	1	0	0	0	0	0	0		
South Africa to U.S. Southeast Coast (1702)	1,523	68	6	0.69	6	1	1	2	0	0	0		
South Africa to U.S. Gulf Coast (1703)	100	12	1	0.28	1	0	0	0	0	0	0		
South Africa to U.S. Southwest Coast (1704)	2	3	0	0.02	0	0	0	0	0	0	0		
South Africa to U.S. Northwest Coast (1705)	4,695	205	14	0.76	14	2	4	6	2	0	0		
Arabian Gulf to U.S. Northeast Coast (1801)	578	105	6	0.14	6	1	2	3	3	0	0		
Arabian Gulf to U.S. Southeast Coast (1802)	22,105	261	24	0.78	24	2	3	16	3	0	0		
Arabian Gulf to U.S. Gulf Coast (1803)	319	85	9	0	9	3	3	3	1	0	0		
Arabian Gulf to U.S. Southwest Coast (1804)	400	42	4	0	4	1	1	1	0	0	0		
Arabian Gulf to U.S. Northwest Coast (1805)	8,488	330	16	0.75	16	2	5	5	4	1	0		
Other Med to U.S. Northeast Coast (1901)	531	113	4	0.13	4	1	1	1	1	1	0		
Other Med to U.S. Southeast Coast (1902)	8,607	360	23	0.52	23	4	6	9	3	1	0		
Other Med to U.S. Gulf Coast (1903)	109	75	4	0.15	4	1	1	1	1	0	0		
Other Med to U.S. Southwest Coast (1904)	3	13	1	0.01	1	0	0	0	0	0	0		
Other Med to U.S. Northwest Coast (1905)	419	52	4	0.31	4	1	1	1	1	0	0		
China to U.S. Northeast Coast (2101)	53	37	2	0.11	2	0	0	0	0	0	0		
China to U.S. Southeast Coast (2102)	780	91	7	0.31	7	1	2	1	1	0	0		
China to U.S. Gulf Coast (2103)	280	142	8	0.08	8	3	3	2	1	0	0		
China to U.S. Southwest Coast (2104)	29	143	9	0.01	9	3	3	3	3	1	0		
China to U.S. Northwest Coast (2105)	2,206	448	29	0.28	29	4	7	10	3	0	0		
South East Asia to U.S. Northeast Coast (2201)	711	301	13	0.22	13	4	3	5	1	0	0		
South East Asia to U.S. Southeast Coast (2202)	5,090	284	30	0.47	30	6	8	11	4	2	0		
South East Asia to U.S. Gulf Coast (2203)	7,576	144	25	0.60	25	7	7	8	3	1	0		
South East Asia to U.S. Southwest Coast (2204)	1,104	43	3	0.34	3	2	3	4	1	0	0		
South East Asia to U.S. Northwest Coast (2205)	58	24	2	0.10	2	1	0	2	0	0	0		
Indian Sub-Continent to U.S. Northeast Coast (2301)	469	89	9	0.12	9	2	1	1	0	0	0		
Indian Sub-Continent to U.S. Southeast Coast (2302)	19	33	3	0.17	3	1	3	3	1	0	0		
Indian Sub-Continent to U.S. Gulf Coast (2303)	3	33	3	0.02	3	1	1	1	1	0	0		
Indian Sub-Continent to U.S. Southwest Coast (2304)				0.00		1	1	1	1	0	0		
Indian Sub-Continent to U.S. Northwest Coast (2305)													
Total	619,490	66,856	3,671		3,672	786	1,094	1,072	535	184	0		

1995 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE

4/26/90

Route	Cargo		Vessel Capacity Required		Ship		Vessel Capacity Available From 1987 Fleet					Required Construction
	000 Tons	Voyages	Ship Years	Unit	Years	Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	
U.S. Northeast Coast to Northern Europe (0108)	30,918	1,860	75	0.52	39	0	0	5	17	21	17	16
U.S. Northeast Coast to Southern Europe (0109)	22,422	921	43	0.66	32	0	0	2	7	11	12	11
U.S. Northeast Coast to Japan (0110)	8,194	809	45	0.50	45	0	0	6	16	14	8	0
U.S. Northeast Coast to Australia/New Zealand (0111)	291	118	10	0.08	10	0	0	1	3	4	2	0
U.S. Northeast Coast to Far East NIC's (0112)	596	963	40	0.54	22	0	0	3	8	7	5	17
U.S. Northeast Coast to South America East Coast (0113)	8,096	2,333	115	0.15	93	0	0	8	26	33	25	23
U.S. Northeast Coast to South America West Coast (0114)	613	573	26	0.06	16	0	0	2	6	6	3	10
U.S. Northeast Coast to East Africa (0115)	62	4	0	0.76	3	0	0	0	1	1	1	0
U.S. Northeast Coast to West Africa (0116)	167	89	6	0.02	8	0	0	0	2	3	3	0
U.S. Northeast Coast to South Africa (0117)	242	56	18	0.05	15	0	0	0	4	6	5	0
U.S. Northeast Coast to Arabian Gulf (0118)	1,259	269	5	0.09	15	0	0	1	4	3	2	0
U.S. Northeast Coast to Other Med (0119)	9,653	612	28	0.54	16	0	0	1	6	6	6	12
U.S. Northeast Coast to China (0121)	641	29	4	0.70	3	0	0	1	4	1	1	0
U.S. Northeast Coast to South East Asia (0122)	974	563	17	0.28	24	0	0	3	8	8	5	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	1,501	68	8	0.70	6	0	0	1	2	2	2	2
U.S. Southeast Coast to Northern Europe (0208)	4,926	671	16	0.55	25	0	0	2	7	9	7	0
U.S. Southeast Coast to Southern Europe (0209)	1,772	323	8	0.55	13	0	0	1	3	5	5	0
U.S. Southeast Coast to Japan (0210)	2,312	481	19	0.39	23	0	0	3	8	7	2	0
U.S. Southeast Coast to Australia/New Zealand (0211)	199	28	2	0.30	6	0	0	0	2	2	3	0
U.S. Southeast Coast to Far East NIC's (0212)	3,678	742	16	0.59	91	0	0	2	25	29	28	16
U.S. Southeast Coast to South America East Coast (0213)	6,543	1,921	85	0.27	12	0	0	9	4	5	3	4
U.S. Southeast Coast to South America West Coast (0214)	563	536	28	0.06	12	0	0	1	3	3	3	0
U.S. Southeast Coast to East Africa (0215)	5	0	0	0.77	2	0	0	0	0	1	1	0
U.S. Southeast Coast to West Africa (0216)	181	18	1	0.74	2	0	0	0	1	1	1	0
U.S. Southeast Coast to South Africa (0217)	136	32	2	0.17	2	0	0	0	0	1	1	0
U.S. Southeast Coast to Arabian Gulf (0218)	744	188	17	0.14	9	0	0	1	3	3	3	0
U.S. Southeast Coast to Other Med (0219)	713	334	6	0.27	8	0	0	0	2	3	3	9
U.S. Southeast Coast to China (0221)	1,170	44	5	0.75	3	0	0	0	1	1	1	2
U.S. Southeast Coast to South East Asia (0222)	703	200	9	0.39	12	0	0	0	4	4	3	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	414	45	5	0.34	4	0	0	0	1	1	1	1
U.S. Gulf Coast to Northern Europe (0308)	27,412	1,133	68	0.74	87	0	0	7	22	30	28	0
U.S. Gulf Coast to Southern Europe (0309)	12,557	471	37	0.76	55	0	0	4	13	19	16	0
U.S. Gulf Coast to Japan (0310)	17,752	521	45	0.71	77	0	0	10	26	26	16	0
U.S. Gulf Coast to Australia/New Zealand (0311)	2,012	182	24	0.35	11	0	0	1	4	4	3	0
U.S. Gulf Coast to Far East NIC's (0312)	12,096	366	40	0.80	45	0	0	16	15	15	10	12
U.S. Gulf Coast to South America East Coast (0313)	20,225	2,899	211	0.24	25	0	0	17	56	77	76	0
U.S. Gulf Coast to South America West Coast (0314)	4,011	514	34	0.42	24	0	0	6	5	8	11	9
U.S. Gulf Coast to East Africa (0315)	281	10	1	0.72	6	0	0	0	1	2	2	0
U.S. Gulf Coast to West Africa (0316)	1,599	122	9	0.25	10	0	0	1	2	4	3	0
U.S. Gulf Coast to South Africa (0317)	846	153	13	0.07	6	0	0	0	1	2	2	7
U.S. Gulf Coast to Arabian Gulf (0318)	4,162	715	77	0.07	27	0	0	1	5	10	11	50
U.S. Gulf Coast to Other Med (0319)	15,161	540	37	0.68	35	0	0	2	6	8	9	12
U.S. Gulf Coast to China (0321)	9,280	401	54	0.63	10	0	0	1	3	4	3	44
U.S. Gulf Coast to South East Asia (0322)	3,847	115	17	0.51	34	0	0	1	9	13	9	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	2,574	292	38	0.39	11	0	0	1	4	4	4	27
U.S. Southwest Coast to Northern Europe (0408)	4,440	236	17	0.72	21	0	0	3	6	6	5	0
U.S. Southwest Coast to Southern Europe (0409)	401	91	4	0.32	8	0	0	1	2	2	3	0
U.S. Southwest Coast to Japan (0410)	12,795	1,917	71	0.42	73	0	0	9	23	24	16	0
U.S. Southwest Coast to Australia/New Zealand (0411)	1,661	153	8	0.44	8	0	0	1	2	3	2	0
U.S. Southwest Coast to Far East NIC's (0412)	17,302	1,060	44	0.70	37	0	0	4	10	12	11	7
U.S. Southwest Coast to South America East Coast (0413)	4,104	742	47	0.29	80	0	0	10	25	25	14	0
U.S. Southwest Coast to South America West Coast (0414)	133	312	15	0.04	39	0	0	3	9	13	0	0
U.S. Southwest Coast to East Africa (0415)	4	5	1	0.05	1	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	8	2	0	0.16	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	95	4	0	0.64	1	0	0	0	0	0	1	0

1995 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shipyards

4/24/90

Route	Vessel Capacity Required			Vessel Capacity Available From 1987 Fleet										Required Construction
	Cargo 000 Tons	Ship Voyages	Ship Years	Capacity Util	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	
U.S. Southwest Coast to Arabian Gulf (0418)	116	15	2	0.28	8	0	1	2	3	2	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	80	38	1	0.37	16	0	3	6	2	3	0	0	0	0
U.S. Southwest Coast to China (0421)	631	68	7	0.27	6	0	1	2	4	2	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	2,922	367	20	0.51	14	0	1	2	5	2	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	782	49	4	0.58	6	0	0	1	2	1	0	0	0	0
U.S. Northwest Coast to Northern Europe (0508)	871	97	5	0.77	6	0	1	2	1	2	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	527	28	2	0.68	101	0	8	30	38	2	0	0	0	0
U.S. Northwest Coast to Japan (0510)	38,884	2,617	127	0.55	101	0	8	30	38	2	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	1,321	71	4	0.76	36	0	5	12	10	5	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	27,747	1,442	71	0.11	17	0	3	15	10	8	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	464	274	8	0.74	11	0	1	2	4	4	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	120	52	0	0.73	1	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	5	0	0	0.70	1	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	4	0	0	0.72	1	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	144	1	0	0.80	10	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	374	15	2	0.70	13	0	2	3	3	3	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	1,057	45	3	0.70	10	0	1	2	3	3	0	0	0	0
U.S. Northwest Coast to China (0521)	2,944	101	6	0.52	14	0	3	4	4	4	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	1,594	136	12	0.80	14	0	2	4	4	4	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	2,963	89	11	0.46	4	0	1	2	1	1	0	0	0	0
Northern Europe to U.S. Northeast Coast (0801)	39,752	2,487	94	0.43	24	0	7	21	24	19	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	6,406	739	16	0.36	81	0	4	21	27	6	0	0	0	0
Northern Europe to U.S. Gulf Coast (0803)	13,635	1,368	68	0.41	25	0	4	9	8	5	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	2,207	378	17	0.53	33	0	2	8	11	4	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	439	87	3	0.66	14	0	1	4	5	4	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	4,715	363	11	0.25	41	0	3	9	14	15	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	4,116	450	27	0.78	8	0	1	2	3	2	0	0	0	0
Southern Europe to U.S. Gulf Coast (0903)	1,277	80	4	0.24	43	0	0	7	15	9	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	82	15	1	0.19	31	0	4	17	10	6	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	3,095	927	48	0.18	37	0	5	13	12	7	0	0	0	0
Japan to U.S. Northeast Coast (1001)	1,317	715	23	0.29	68	0	9	22	21	18	0	0	0	0
Japan to U.S. Gulf Coast (1002)	2,444	304	22	0.22	7	0	8	23	26	1	0	0	0	0
Japan to U.S. Southwest Coast (1003)	7,072	1,931	59	0.10	7	0	0	1	1	2	0	0	0	0
Japan to U.S. Northwest Coast (1004)	3,377	2,720	101	0.79	7	0	0	2	2	1	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	3,253	123	7	0.78	3	0	0	1	1	2	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	572	28	1	0.74	8	0	1	3	3	2	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	8,940	303	17	0.79	10	0	1	4	4	3	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	2,804	120	7	0.80	13	0	2	4	2	1	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	3,232	86	6	0.14	9	0	2	4	4	3	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	1,336	852	19	0.15	13	0	2	3	2	2	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	785	709	12	0.09	11	0	1	3	3	3	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	343	140	10	0.46	37	0	5	11	11	10	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	8,779	851	38	0.06	29	0	6	10	7	6	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	1,980	1,566	60	0.78	77	0	7	22	25	19	0	0	0	0
South America East Coast to U.S. Northeast Coast (1301)	46,212	1,710	96	0.69	174	0	14	47	61	53	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	16,199	1,561	71	0.74	20	0	2	6	7	6	0	0	0	0
South America East Coast to U.S. Gulf Coast (1303)	70,050	2,789	171	0.67	7	0	1	2	2	2	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	3,173	165	11	0.61	19	0	2	7	7	4	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	1,501	77	5	0.73	10	0	1	3	3	4	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	12,572	620	33	0.77	17	0	1	4	4	6	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	7,381	389	19	0.74	17	0	1	3	3	4	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	10,229	455	27	0.74	17	0	1	3	3	4	0	0	0	0

1995 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE

For All Shipyards

4/24/90

Route	Vessel Capacity Required			Vessel Capacity Available From 1987 Fleet									
	Cargo 000 Tons	Voyages	Ship Years	Capacity Util	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	Required Construction		
South America West Coast to U.S. Southwest Coast (1404)	2,250	266	15	0.63	34	0	2	7	12	13	0		
South America West Coast to U.S. Northwest Coast (1405)	26	40	1	0.05	8	0	0	1	3	3	0		
East Africa to U.S. Northeast Coast (1501)	37	4	0	0.44	4	0	0	1	1	1	0		
East Africa to U.S. Southeast Coast (1502)	3	0	0	0.37	1	0	0	0	0	0	0		
East Africa to U.S. Gulf Coast (1503)	44	4	0	0.09	3	0	0	0	1	1	0		
East Africa to U.S. Southwest Coast (1504)	5	0	0	0.36	0	0	0	0	0	0	0		
East Africa to U.S. Northwest Coast (1505)	0	0	0	0.00	0	0	0	0	0	0	0		
West Africa to U.S. Northeast Coast (1601)	25,334	250	16	0.85	19	0	0	0	7	8	0		
West Africa to U.S. Southeast Coast (1602)	10,694	102	7	0.85	10	0	1	1	4	6	0		
West Africa to U.S. Gulf Coast (1603)	27,568	354	26	0.74	24	0	1	4	10	10	2		
West Africa to U.S. Southwest Coast (1604)	53	2	0	0.71	1	0	0	0	0	0	0		
West Africa to U.S. Northwest Coast (1605)	1	0	0	0.77	0	0	0	0	0	0	0		
South Africa to U.S. Northeast Coast (1701)	9,148	98	8	0.85	5	0	0	0	0	0	0		
South Africa to U.S. Southeast Coast (1702)	4,115	21	1	0.86	1	0	0	0	2	2	3		
South Africa to U.S. Gulf Coast (1703)	12,379	135	10	0.84	4	0	0	0	2	2	6		
South Africa to U.S. Southwest Coast (1704)	24	1	0	0.78	1	0	0	0	0	0	0		
South Africa to U.S. Northwest Coast (1705)	7	0	0	0.79	1	0	0	0	0	0	0		
Arabian Gulf to U.S. Northeast Coast (1801)	18,469	306	32	0.78	12	0	1	2	5	5	20		
Arabian Gulf to U.S. Southeast Coast (1802)	9,665	404	38	0.75	5	0	0	0	2	2	33		
Arabian Gulf to U.S. Gulf Coast (1803)	81,638	1,006	100	0.82	23	0	1	3	8	11	77		
Arabian Gulf to U.S. Southwest Coast (1804)	444	14	2	0.64	9	0	0	3	3	2	0		
Arabian Gulf to U.S. Northwest Coast (1805)	21	5	1	0.19	4	0	0	1	1	1	0		
Other Med to U.S. Northeast Coast (1901)	10,463	542	27	0.49	14	0	1	3	5	5	13		
Other Med to U.S. Southeast Coast (1902)	1,200	105	2	0.68	3	0	0	1	1	1	0		
Other Med to U.S. Gulf Coast (1903)	14,508	479	31	0.62	20	0	0	5	7	7	11		
Other Med to U.S. Southwest Coast (1904)	88	14	0	0.75	4	0	0	1	1	1	0		
Other Med to U.S. Northwest Coast (1905)	0	0	0	0.00	1	0	0	0	0	0	0		
China to U.S. Northeast Coast (2101)	1,018	55	7	0.74	3	0	0	0	1	1	0		
China to U.S. Southeast Coast (2102)	111	24	2	0.22	2	0	0	0	1	1	0		
China to U.S. Gulf Coast (2103)	2,073	108	12	0.57	6	0	1	2	2	2	6		
China to U.S. Southwest Coast (2104)	1,072	57	4	0.57	7	0	1	3	2	2	0		
China to U.S. Northwest Coast (2105)	98	138	10	0.03	9	0	3	7	6	4	0		
South East Asia to U.S. Northeast Coast (2201)	3,335	622	23	0.68	26	0	2	4	8	9	0		
South East Asia to U.S. Southeast Coast (2202)	1,402	200	10	0.61	13	0	3	7	6	4	0		
South East Asia to U.S. Gulf Coast (2203)	3,664	121	15	0.49	27	0	2	7	7	9	0		
South East Asia to U.S. Southwest Coast (2204)	9,675	343	22	0.77	23	0	3	7	6	3	0		
South East Asia to U.S. Northwest Coast (2205)	1,894	192	21	0.46	10	0	1	3	3	1	11		
Indian Sub-Continent to U.S. Northeast Coast (2301)	587	39	3	0.42	3	0	1	1	1	1	0		
Indian Sub-Continent to U.S. Southeast Coast (2302)	416	16	1	0.67	2	0	0	0	1	1	0		
Indian Sub-Continent to U.S. Gulf Coast (2303)	1,911	183	22	0.54	9	0	1	2	3	2	14		
Indian Sub-Continent to U.S. Southwest Coast (2304)	65	40	4	0.06	3	0	0	1	1	1	1		
Indian Sub-Continent to U.S. Northwest Coast (2305)	5	70	8	0.00	3	0	0	1	1	1	5		
Total	935,036	66,979	3,481		3,240	0	315	910	1,085	931	281		

2000 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE

4/24/90

Route	Vessel Capacity Required			Vessel Capacity Available from 1987 Fleet										Required Construction
	Cargo 000 Tons	Voyages	Ship Years	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25+ Years	26-29 Years	30-33 Years	34-37 Years	
U.S. Northeast Coast to Northern Europe (0108)	36,684	2,062	86	45	0	0	5	17	24	24	17	13	27	40
U.S. Northeast Coast to Southern Europe (0109)	24,208	1,053	49	38	0	0	6	16	16	16	16	16	16	6
U.S. Northeast Coast to Japan (0110)	8,011	820	44	10	0	0	1	3	7	7	7	7	7	2
U.S. Northeast Coast to Australia/New Zealand (0111)	397	126	10	10	0	0	1	3	3	3	3	3	3	35
U.S. Northeast Coast to Far East NIC's (0112)	13,472	1,447	53	19	0	0	3	8	38	38	38	38	38	50
U.S. Northeast Coast to South America East Coast (0113)	8,314	2,471	122	14	0	0	2	6	6	6	6	6	6	14
U.S. Northeast Coast to South America West Coast (0114)	748	616	5	2	0	0	0	0	1	1	1	1	1	0
U.S. Northeast Coast to East Africa (0115)	89	111	7	6	0	0	0	0	4	4	4	4	4	2
U.S. Northeast Coast to West Africa (0116)	197	77	7	5	0	0	0	0	3	3	3	3	3	2
U.S. Northeast Coast to South Africa (0117)	308	341	23	11	0	0	0	0	7	7	7	7	7	11
U.S. Northeast Coast to Arabian Gulf (0118)	1,651	711	32	12	0	0	1	4	11	11	11	11	11	20
U.S. Northeast Coast to Other Med (0119)	9,416	613	42	20	0	0	1	8	9	9	9	9	9	3
U.S. Northeast Coast to China (0121)	979	42	5	3	0	0	0	0	1	1	1	1	1	0
U.S. Northeast Coast to South East Asia (0122)	1,402	613	18	5	0	0	0	0	2	2	2	2	2	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	2,304	101	12	12	0	0	0	0	1	1	1	1	1	8
U.S. Southeast Coast to Northern Europe (0208)	5,090	72	17	19	0	0	2	7	11	11	11	11	11	0
U.S. Southeast Coast to Southern Europe (0209)	1,827	363	9	9	0	0	1	3	8	8	8	8	8	0
U.S. Southeast Coast to Japan (0210)	2,474	719	19	19	0	0	3	8	8	8	8	8	8	0
U.S. Southeast Coast to Australia/New Zealand (0211)	2,274	32	2	5	0	0	0	0	3	3	3	3	3	0
U.S. Southeast Coast to Far East NIC's (0212)	6,159	1,233	25	10	0	0	0	0	4	4	4	4	4	15
U.S. Southeast Coast to South America East Coast (0213)	8,862	2,255	94	67	0	0	9	25	34	34	34	34	34	27
U.S. Southeast Coast to South America West Coast (0214)	689	560	29	9	0	0	1	3	5	5	5	5	5	20
U.S. Southeast Coast to East Africa (0215)	5	0	0	1	0	0	0	0	1	1	1	1	1	0
U.S. Southeast Coast to West Africa (0216)	183	18	1	2	0	0	0	0	1	1	1	1	1	0
U.S. Southeast Coast to South Africa (0217)	197	35	2	1	0	0	0	0	1	1	1	1	1	1
U.S. Southeast Coast to Arabian Gulf (0218)	965	239	22	6	0	0	0	0	4	4	4	4	4	16
U.S. Southeast Coast to Other Med (0219)	1,120	434	8	10	0	0	0	0	1	1	1	1	1	2
U.S. Southeast Coast to China (0221)	2,131	77	8	2	0	0	0	0	1	1	1	1	1	6
U.S. Southeast Coast to South East Asia (0222)	1,168	276	10	3	0	0	0	0	1	1	1	1	1	3
U.S. Southeast Coast to Indian Sub-Continent (0223)	26,225	523	65	39	0	0	7	22	35	35	35	35	35	1
U.S. Gulf Coast to Northern Europe (0308)	17,722	1,104	46	64	0	0	4	13	22	22	22	22	22	0
U.S. Gulf Coast to Southern Europe (0309)	12,206	488	38	37	0	0	6	25	29	29	29	29	29	0
U.S. Gulf Coast to Japan (0310)	17,722	521	44	37	0	0	10	13	22	22	22	22	22	0
U.S. Gulf Coast to Australia/New Zealand (0311)	2,861	218	27	16	0	0	4	15	17	17	17	17	17	18
U.S. Gulf Coast to Far East NIC's (0312)	17,430	509	60	37	0	0	6	36	47	47	47	47	47	23
U.S. Gulf Coast to South America East Coast (0313)	22,412	2,995	227	162	0	0	17	56	90	90	90	90	90	64
U.S. Gulf Coast to South America West Coast (0314)	4,597	560	36	27	0	0	1	5	10	10	10	10	10	20
U.S. Gulf Coast to East Africa (0315)	266	10	1	8	0	0	0	1	3	3	3	3	3	0
U.S. Gulf Coast to West Africa (0316)	1,771	142	11	4	0	0	0	1	2	2	2	2	2	3
U.S. Gulf Coast to South Africa (0317)	903	198	17	8	0	0	0	1	3	3	3	3	3	13
U.S. Gulf Coast to Arabian Gulf (0318)	3,992	802	87	18	0	0	0	5	12	12	12	12	12	68
U.S. Gulf Coast to Other Med (0319)	20,091	736	48	17	0	0	2	6	10	10	10	10	10	30
U.S. Gulf Coast to China (0321)	10,214	482	65	26	0	0	3	9	14	14	14	14	14	56
U.S. Gulf Coast to South East Asia (0322)	3,506	371	22	8	0	0	3	9	14	14	14	14	14	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	2,844	189	11	17	0	0	3	7	7	7	7	7	7	40
U.S. Southwest Coast to Northern Europe (0408)	3,997	105	4	59	0	0	9	23	27	27	27	27	27	0
U.S. Southwest Coast to Southern Europe (0409)	14,158	2,034	72	6	0	0	1	2	3	3	3	3	3	13
U.S. Southwest Coast to Japan (0410)	1,928	175	10	6	0	0	1	2	3	3	3	3	3	3
U.S. Southwest Coast to Australia/New Zealand (0411)	24,585	1,551	63	28	0	0	4	10	14	14	14	14	14	35
U.S. Southwest Coast to Far East NIC's (0412)	5,211	720	47	63	0	0	10	25	28	28	28	28	28	0
U.S. Southwest Coast to South America East Coast (0413)	1,161	344	17	0	0	0	3	9	15	15	15	15	15	0
U.S. Southwest Coast to South America West Coast (0414)	13	3	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	159	5	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)														
U.S. Southwest Coast to South Africa (0417)														

2000 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shiptypes

4/24/90

Route	Vessel Capacity Required				Vessel Capacity Available from 1987 Fleet										Required Construction
	Cargo 000 Tons	Voyages	Ship Years	Capacity Util	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	
U.S. Southwest Coast to Arabian Gulf (0416)	144	20	2	0.27	6	0	0	1	2	3	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	65	50	1	0.30	13	0	0	1	6	5	0	0	0	0	4
U.S. Southwest Coast to China (0421)	955	82	8	0.35	5	0	0	1	2	2	0	0	0	0	13
U.S. Southwest Coast to South East Asia (0422)	3,994	488	23	0.36	10	0	0	1	4	6	0	0	0	0	2
U.S. Southwest Coast to Indian Sub-Continent (0423)	1,140	69	5	0.70	3	0	0	0	1	2	0	0	0	0	1
U.S. Northwest Coast to Northern Europe (0508)	969	115	6	0.55	5	0	0	1	2	1	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	675	36	2	0.77	4	0	0	1	2	2	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	39,953	2,720	130	0.68	81	0	0	8	30	43	0	0	0	0	49
U.S. Northwest Coast to Australia/New Zealand (0511)	1,527	80	4	0.57	5	0	0	1	2	2	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	41,053	2,188	108	0.76	29	0	0	5	12	11	0	0	0	0	79
U.S. Northwest Coast to South America East Coast (0513)	4,698	301	7	0.13	13	0	0	1	5	5	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	159	48	0	0.74	8	0	0	1	2	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	6	0	0	0.73	1	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	6	0	0	0.50	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	152	1	0	0.73	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	421	22	2	0.71	8	0	0	1	3	3	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	1,406	64	4	0.80	8	0	0	2	3	3	0	0	0	0	0
U.S. Northwest Coast to China (0521)	4,690	160	10	0.71	11	0	0	2	3	3	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	2,400	221	19	0.58	11	0	0	2	4	5	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	3,325	59	12	0.80	3	0	0	1	1	1	0	0	0	0	9
Northern Europe to U.S. Northeast Coast (0801)	44,044	2,788	108	0.44	55	0	0	7	21	28	0	0	0	0	53
Northern Europe to U.S. Southeast Coast (0802)	14,771	786	17	0.46	19	0	0	2	9	9	0	0	0	0	5
Northern Europe to U.S. Gulf Coast (0803)	14,098	1,319	65	0.38	60	0	0	4	3	3	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	2,315	361	16	0.43	21	0	0	1	3	3	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	476	102	4	0.39	7	0	0	1	3	3	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	16,594	1,163	51	0.55	23	0	0	2	9	13	0	0	0	0	27
Southern Europe to U.S. Southeast Coast (0902)	5,717	428	13	0.70	10	0	0	1	4	5	0	0	0	0	5
Southern Europe to U.S. Gulf Coast (0903)	4,912	473	28	0.29	29	0	0	3	9	17	0	0	0	0	2
Southern Europe to U.S. Southwest Coast (0904)	1,518	93	4	0.78	6	0	0	1	2	3	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	98	18	1	0.23	2	0	0	0	1	1	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	3,309	99	47	0.21	40	0	0	7	17	17	0	0	0	0	7
Japan to U.S. Southeast Coast (1002)	1,465	748	23	0.20	26	0	0	4	11	13	0	0	0	0	0
Japan to U.S. Gulf Coast (1003)	2,473	305	22	0.30	31	0	0	5	11	13	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	7,625	2,054	60	0.23	55	0	0	8	22	26	0	0	0	0	5
Australia/New Zealand to U.S. Northeast Coast (1101)	3,830	190	8	0.79	60	0	0	1	2	2	0	0	0	0	4
Australia/New Zealand to U.S. Southeast Coast (1102)	616	31	1	0.78	3	0	0	0	1	1	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	9,501	331	18	0.72	7	0	0	1	3	3	0	0	0	0	11
Australia/New Zealand to U.S. Southwest Coast (1104)	3,217	136	8	0.78	6	0	0	1	2	2	0	0	0	0	2
Australia/New Zealand to U.S. Northwest Coast (1105)	3,517	97	7	0.78	9	0	0	2	4	4	0	0	0	0	16
Far East NIC's to U.S. Northeast Coast (1201)	1,575	1,302	27	0.12	11	0	0	2	4	4	0	0	0	0	13
Far East NIC's to U.S. Southeast Coast (1202)	917	1,170	20	0.11	7	0	0	2	3	3	0	0	0	0	8
Far East NIC's to U.S. Gulf Coast (1203)	376	220	17	0.06	9	0	0	1	3	3	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	10,522	1,246	55	0.38	29	0	0	5	11	13	0	0	0	0	26
Far East NIC's to U.S. Northwest Coast (1205)	2,381	2,350	91	0.05	23	0	0	5	10	13	0	0	0	0	6
South America East Coast to U.S. Northeast Coast (1301)	49,006	1,821	102	0.78	56	0	0	6	21	29	0	0	0	0	46
South America East Coast to U.S. Southeast Coast (1302)	16,721	1,823	79	0.65	59	0	0	7	22	29	0	0	0	0	21
South America East Coast to U.S. Gulf Coast (1303)	67,782	3,106	186	0.71	131	0	0	14	47	70	0	0	0	0	55
South America East Coast to U.S. Southwest Coast (1304)	2,961	170	11	0.61	15	0	0	2	6	8	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	1,359	83	5	0.54	6	0	0	1	2	3	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	14,823	677	36	0.73	16	0	0	1	7	7	0	0	0	0	20
South America West Coast to U.S. Southeast Coast (1402)	8,742	417	21	0.77	8	0	0	1	3	4	0	0	0	0	13
South America West Coast to U.S. Gulf Coast (1403)	12,975	535	31	0.75	11	0	0	1	5	7	0	0	0	0	20

4/24/90

2000 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shipyards

Route	Vessel Capacity Required			Vessel Capacity Available from 1987 Fleet							Required Construction
	Cargo 000 Tons	Voyages	Ship Years	Capacity Util	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	
South America West Coast to U.S. Southwest Coast (1404)	2,621	291	16	0.64	24	0	0	2	7	14	0
South America West Coast to U.S. Northwest Coast (1405)	30	39	1	0.06	5	0	0	0	1	3	0
East Africa to U.S. Northeast Coast (1501)	30	5	0	0.27	3	0	0	0	1	2	0
East Africa to U.S. Southeast Coast (1502)	2	0	0	0.25	1	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	40	4	0	0.33	2	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	3	3	0	0.09	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0.00	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	31,173	305	15	0.85	12	0	0	1	3	8	0
West Africa to U.S. Southeast Coast (1602)	13,451	125	9	0.85	6	0	0	0	1	5	3
West Africa to U.S. Gulf Coast (1603)	33,618	418	30	0.75	16	0	0	0	4	12	14
West Africa to U.S. Southwest Coast (1604)	85	4	0	0.70	1	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	1	0	0	0.77	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	12,931	134	11	0.84	3	0	0	0	1	2	0
South Africa to U.S. Southwest Coast (1702)	5,816	26	1	0.85	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	17,421	175	13	0.84	3	0	0	0	0	2	0
South Africa to U.S. Southwest Coast (1704)	31	1	0	0.79	1	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	6	0	0	0.78	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	23,279	485	40	0.77	9	0	0	0	2	5	32
Arabian Gulf to U.S. Southeast Coast (1802)	11,904	507	47	0.74	4	0	0	0	1	3	43
Arabian Gulf to U.S. Gulf Coast (1803)	99,787	1,093	109	0.64	14	0	0	1	3	11	95
Arabian Gulf to U.S. Southwest Coast (1804)	57	18	2	0.64	7	0	0	0	1	3	0
Arabian Gulf to U.S. Northwest Coast (1805)	27	7	1	0.18	3	0	0	0	1	1	0
Other Med to U.S. Northeast Coast (1901)	13,585	657	33	0.53	10	0	0	0	1	6	23
Other Med to U.S. Southeast Coast (1902)	1,482	133	2	0.68	2	0	0	0	1	1	0
Other Med to U.S. Gulf Coast (1903)	18,798	628	40	0.62	14	0	0	0	5	8	26
Other Med to U.S. Southwest Coast (1904)	115	18	1	0.76	3	0	0	0	1	1	0
Other Med to U.S. Northwest Coast (1905)	0	6	0	0.00	1	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	911	51	6	0.72	2	0	0	0	1	1	4
China to U.S. Southeast Coast (2102)	149	36	3	0.18	1	0	0	0	0	0	2
China to U.S. Gulf Coast (2103)	1,971	109	11	0.55	5	0	0	1	2	2	6
China to U.S. Southwest Coast (2104)	1,113	69	4	0.50	7	0	0	1	3	3	10
China to U.S. Northwest Coast (2105)	3,385	222	17	0.64	20	0	0	1	4	10	2
South East Asia to U.S. Northeast Coast (2201)	1,592	666	22	0.46	10	0	0	2	7	4	2
South East Asia to U.S. Southeast Coast (2202)	3,763	165	12	0.39	20	0	0	3	7	8	1
South East Asia to U.S. Gulf Coast (2203)	10,117	358	23	0.78	17	0	0	3	3	4	6
South East Asia to U.S. Southwest Coast (2204)	2,152	320	38	0.36	7	0	0	1	1	2	36
South East Asia to U.S. Northwest Coast (2205)	701	58	5	0.35	2	0	0	0	0	0	2
Indian Sub-Continent to U.S. Northeast Coast (2301)	505	20	2	0.65	2	0	0	0	1	1	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	2,218	229	28	0.69	7	0	0	0	2	3	21
Indian Sub-Continent to U.S. Gulf Coast (2303)	75	61	6	0.04	2	0	0	0	1	1	4
Indian Sub-Continent to U.S. Southwest Coast (2304)	7	82	9	0.00	2	0	0	0	1	1	7
Indian Sub-Continent to U.S. Northwest Coast (2305)											
Total	1,082,951	76,710	3,984		2,481	0	0	315	910	1,257	1,503

2010 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE For All Shipyards

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Route	Vessel Capacity Required				Vessel Capacity Available from 1987 Fleet									
	Cargo 000 Tons	Voyages	Ship Years	Capacity Util	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	Required Construction			
U.S. Southwest Coast to Arabian Gulf (0418)	182	24	3	0.31	0	0	0	0	0	0	3			
U.S. Southwest Coast to Other Med (0419)	113	76	1	0.26	0	0	0	0	0	0	1			
U.S. Southwest Coast to China (0421)	1,401	127	12	0.38	0	0	0	0	0	0	12			
U.S. Southwest Coast to South East Asia (0422)	6,665	791	31	0.44	0	0	0	0	0	0	31			
U.S. Southwest Coast to Indian Sub-Continent (0423)	1,696	112	8	0.68	0	0	0	0	0	0	8			
U.S. Northwest Coast to Northern Europe (0508)	1,040	138	7	0.47	0	0	0	0	0	0	7			
U.S. Northwest Coast to Southern Europe (0509)	980	51	3	0.77	0	0	0	0	0	0	3			
U.S. Northwest Coast to Japan (0510)	34,898	2,566	116	0.68	0	0	0	0	0	0	116			
U.S. Northwest Coast to Australia/New Zealand (0511)	1,709	91	5	0.82	0	0	0	0	0	0	5			
U.S. Northwest Coast to Far East NIC's (0512)	52,517	3,165	150	0.75	0	0	0	0	0	0	150			
U.S. Northwest Coast to South America East Coast (0513)	481	49	6	0.17	0	0	0	0	0	0	6			
U.S. Northwest Coast to South America West Coast (0514)	166	15	0	0.75	0	0	0	0	0	0	0			
U.S. Northwest Coast to West Africa (0516)	10	0	0	0.73	0	0	0	0	0	0	0			
U.S. Northwest Coast to South Africa (0517)	169	1	0	0.50	0	0	0	0	0	0	0			
U.S. Northwest Coast to Arabian Gulf (0518)	530	35	4	0.70	0	0	0	0	0	0	4			
U.S. Northwest Coast to Other Med (0519)	1,473	92	4	0.80	0	0	0	0	0	0	4			
U.S. Northwest Coast to China (0521)	8,847	287	17	0.71	0	0	0	0	0	0	17			
U.S. Northwest Coast to South East Asia (0522)	3,909	339	29	0.63	0	0	0	0	0	0	29			
U.S. Northwest Coast to Indian Sub-Continent (0523)	3,510	105	13	0.80	0	0	0	0	0	0	13			
Northern Europe to U.S. Northeast Coast (0801)	54,789	3,345	137	0.43	0	0	0	0	0	0	137			
Northern Europe to U.S. Southeast Coast (0802)	5,378	815	18	0.48	0	0	0	0	0	0	18			
Northern Europe to U.S. Gulf Coast (0803)	13,461	1,178	54	0.38	0	0	0	0	0	0	54			
Northern Europe to U.S. Southwest Coast (0804)	2,570	330	15	0.47	0	0	0	0	0	0	15			
Northern Europe to U.S. Northwest Coast (0805)	550	116	4	0.39	0	0	0	0	0	0	4			
Southern Europe to U.S. Northeast Coast (0901)	20,538	1,484	65	0.58	0	0	0	0	0	0	65			
Southern Europe to U.S. Southeast Coast (0902)	8,354	582	17	0.79	0	0	0	0	0	0	17			
Southern Europe to U.S. Gulf Coast (0903)	5,679	395	21	0.45	0	0	0	0	0	0	21			
Southern Europe to U.S. Southwest Coast (0904)	2,187	130	6	0.79	0	0	0	0	0	0	6			
Southern Europe to U.S. Northwest Coast (0905)	118	25	2	0.19	0	0	0	0	0	0	2			
Japan to U.S. Northeast Coast (1001)	3,230	905	40	0.25	0	0	0	0	0	0	40			
Japan to U.S. Southeast Coast (1002)	1,583	736	20	0.29	0	0	0	0	0	0	20			
Japan to U.S. Gulf Coast (1003)	1,877	244	17	0.29	0	0	0	0	0	0	17			
Japan to U.S. Southwest Coast (1004)	8,184	2,118	56	0.26	0	0	0	0	0	0	56			
Australia/New Zealand to U.S. Northeast Coast (1101)	4,495	1,819	97	0.13	0	0	0	0	0	0	97			
Australia/New Zealand to U.S. Southeast Coast (1102)	642	180	10	0.80	0	0	0	0	0	0	10			
Australia/New Zealand to U.S. Gulf Coast (1103)	14,006	509	27	0.77	0	0	0	0	0	0	27			
Australia/New Zealand to U.S. Southwest Coast (1104)	4,152	178	11	0.77	0	0	0	0	0	0	11			
Australia/New Zealand to U.S. Northwest Coast (1105)	3,418	109	8	0.71	0	0	0	0	0	0	8			
Far East NIC's to U.S. Northeast Coast (1201)	2,048	2,310	45	0.09	0	0	0	0	0	0	45			
Far East NIC's to U.S. Southeast Coast (1202)	1,147	2,125	35	0.08	0	0	0	0	0	0	35			
Far East NIC's to U.S. Gulf Coast (1203)	373	365	29	0.04	0	0	0	0	0	0	29			
Far East NIC's to U.S. Southwest Coast (1204)	13,477	2,202	95	0.28	0	0	0	0	0	0	95			
Far East NIC's to U.S. Northwest Coast (1205)	3,133	3,390	126	0.05	0	0	0	0	0	0	126			
South America East Coast to U.S. Northeast Coast (1301)	53,758	2,056	115	0.77	0	0	0	0	0	0	115			
South America East Coast to U.S. Southeast Coast (1302)	18,328	2,449	102	0.56	0	0	0	0	0	0	102			
South America East Coast to U.S. Gulf Coast (1303)	61,308	3,906	223	0.69	0	0	0	0	0	0	223			
South America East Coast to U.S. Southwest Coast (1304)	2,593	131	9	0.73	0	0	0	0	0	0	9			
South America East Coast to U.S. Northwest Coast (1305)	1,067	107	6	0.38	0	0	0	0	0	0	6			
South America West Coast to U.S. Northeast Coast (1401)	17,898	814	43	0.72	0	0	0	0	0	0	43			
South America West Coast to U.S. Southeast Coast (1402)	10,327	466	23	0.76	0	0	0	0	0	0	23			
South America West Coast to U.S. Southwest Coast (1403)	18,243	705	42	0.76	0	0	0	0	0	0	42			

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Route	Vessel Capacity Required				Vessel Capacity Available from 1987 Fleet						
	Cargo 000 Tons	Voyages	Ship Years	Capacity Util	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	Required Construction
South America West Coast to U.S. Southwest Coast (1404)	3,523	368	21	0.65							21
South America West Coast to U.S. Northwest Coast (1405)	31	42	1	0.06							1
East Africa to U.S. Northeast Coast (1501)	19	8	1	0.11							1
East Africa to U.S. Southeast Coast (1502)	1	0	0	0.09							0
East Africa to U.S. Gulf Coast (1503)	40	5	0	0.34							0
East Africa to U.S. Southwest Coast (1504)	1	1	0	0.09							0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0.00							0
West Africa to U.S. Northeast Coast (1601)	42,277	418	26	0.85							26
West Africa to U.S. Southeast Coast (1602)	18,633	165	12	0.85							12
West Africa to U.S. Gulf Coast (1603)	44,300	477	34	0.79							34
West Africa to U.S. Southwest Coast (1604)	108	6	0	0.64							0
West Africa to U.S. Northwest Coast (1605)	1	0	0	0.77							0
South Africa to U.S. Northeast Coast (1701)	19,853	198	15	0.84							15
South Africa to U.S. Southeast Coast (1702)	8,944	35	1	0.85							1
South Africa to U.S. Gulf Coast (1703)	26,663	246	18	0.85							18
South Africa to U.S. Southwest Coast (1704)	36	1	0	0.79							0
South Africa to U.S. Northwest Coast (1705)	5	0	0	0.65							0
Arabian Gulf to U.S. Northeast Coast (1801)	30,689	635	51	0.76							51
Arabian Gulf to U.S. Southeast Coast (1802)	15,245	671	61	0.74							61
Arabian Gulf to U.S. Gulf Coast (1803)	124,984	975	97	0.84							97
Arabian Gulf to U.S. Southwest Coast (1804)	571	21	3	0.82							3
Arabian Gulf to U.S. Northwest Coast (1805)	27	10	1	0.13							1
Other Med to U.S. Northeast Coast (1901)	19,124	860	42	0.58							42
Other Med to U.S. Southeast Coast (1902)	2,026	191	3	0.68							3
Other Med to U.S. Gulf Coast (1903)	26,055	828	53	0.66							53
Other Med to U.S. Southwest Coast (1904)	177	28	1	0.77							1
Other Med to U.S. Northwest Coast (1905)	0	8	0	0.00							0
China to U.S. Northeast Coast (2101)	637	41	5	0.62							5
China to U.S. Southeast Coast (2102)	214	62	5	0.14							5
China to U.S. Gulf Coast (2103)	1,689	114	11	0.49							11
China to U.S. Southwest Coast (2104)	830	91	5	0.42							5
China to U.S. Northwest Coast (2105)	129	403	31	0.01							31
South East Asia to U.S. Northeast Coast (2201)	3,719	748	24	0.58							24
South East Asia to U.S. Southeast Coast (2202)	1,720	433	15	0.36							15
South East Asia to U.S. Gulf Coast (2203)	3,955	206	23	0.35							23
South East Asia to U.S. Southwest Coast (2204)	11,424	520	31	0.69							31
South East Asia to U.S. Northwest Coast (2205)	2,510	480	56	0.29							56
Indian Sub-Continent to U.S. Northeast Coast (2301)	815	95	7	0.26							7
Indian Sub-Continent to U.S. Southeast Coast (2302)	580	30	2	0.57							2
Indian Sub-Continent to U.S. Gulf Coast (2303)	2,482	296	35	0.39							35
Indian Sub-Continent to U.S. Southwest Coast (2304)	86	101	10	0.05							10
Indian Sub-Continent to U.S. Northwest Coast (2305)	8	96	10	0.00							10
Total	1,284,004	95,226	4,724		0	0	0	0	0	0	4,724

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Route	Vessel Capacity Required			Vessel Capacity Available from 1987 Fleet										Required Construction
	Cargo 000 Tons	Voyages	Ship Years	Util	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	
U.S. Northeast Coast to Northern Europe (0108)	51,652	2,761	127	0.50	0	0	0	0	0	0	0	0	0	127
U.S. Northeast Coast to Southern Europe (0109)	25,250	1,601	68	0.55	0	0	0	0	0	0	0	0	0	68
U.S. Northeast Coast to Japan (0110)	3,751	808	28	0.43	0	0	0	0	0	0	0	0	0	28
U.S. Northeast Coast to Australia/New Zealand (0111)	709	231	20	0.10	0	0	0	0	0	0	0	0	0	20
U.S. Northeast Coast to Far East NIC's (0112)	27,611	4,030	122	0.50	0	0	0	0	0	0	0	0	0	122
U.S. Northeast Coast to South America East Coast (0113)	9,177	3,182	153	0.14	0	0	0	0	0	0	0	0	0	153
U.S. Northeast Coast to South America West Coast (0114)	1,602	856	39	0.11	0	0	0	0	0	0	0	0	0	39
U.S. Northeast Coast to East Africa (0115)	203	13	2	0.77	0	0	0	0	0	0	0	0	0	2
U.S. Northeast Coast to West Africa (0116)	408	209	14	0.02	0	0	0	0	0	0	0	0	0	14
U.S. Northeast Coast to South Africa (0117)	573	156	13	0.04	0	0	0	0	0	0	0	0	0	13
U.S. Northeast Coast to Arabian Gulf (0118)	3,963	601	40	0.13	0	0	0	0	0	0	0	0	0	40
U.S. Northeast Coast to Other Med (0119)	6,004	1,033	38	0.25	0	0	0	0	0	0	0	0	0	38
U.S. Northeast Coast to China (0121)	3,122	123	16	0.79	0	0	0	0	0	0	0	0	0	16
U.S. Northeast Coast to South East Asia (0122)	4,325	963	25	0.70	0	0	0	0	0	0	0	0	0	25
U.S. Northeast Coast to Indian Sub-Continent (0123)	5,632	232	28	0.76	0	0	0	0	0	0	0	0	0	28
U.S. Southeast Coast to Northern Europe (0208)	5,341	744	17	0.59	0	0	0	0	0	0	0	0	0	17
U.S. Southeast Coast to Southern Europe (0209)	1,662	739	17	0.24	0	0	0	0	0	0	0	0	0	17
U.S. Southeast Coast to Japan (0210)	2,694	709	17	0.46	0	0	0	0	0	0	0	0	0	17
U.S. Southeast Coast to Australia/New Zealand (0211)	462	44	3	0.49	0	0	0	0	0	0	0	0	0	3
U.S. Southeast Coast to Far East NIC's (0212)	17,858	3,715	71	0.64	0	0	0	0	0	0	0	0	0	71
U.S. Southeast Coast to South America East Coast (0213)	18,801	4,306	169	0.44	0	0	0	0	0	0	0	0	0	169
U.S. Southeast Coast to South America West Coast (0214)	1,357	650	34	0.11	0	0	0	0	0	0	0	0	0	34
U.S. Southeast Coast to East Africa (0215)	4	0	0	0.77	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	110	16	1	0.44	0	0	0	0	0	0	0	0	0	1
U.S. Southeast Coast to South Africa (0217)	270	38	2	0.26	0	0	0	0	0	0	0	0	0	2
U.S. Southeast Coast to Arabian Gulf (0218)	2,186	445	40	0.19	0	0	0	0	0	0	0	0	0	40
U.S. Southeast Coast to Other Med (0219)	1,974	936	14	0.33	0	0	0	0	0	0	0	0	0	14
U.S. Southeast Coast to China (0221)	5,931	220	24	0.77	0	0	0	0	0	0	0	0	0	24
U.S. Southeast Coast to South East Asia (0222)	2,808	692	17	0.63	0	0	0	0	0	0	0	0	0	17
U.S. Southeast Coast to Indian Sub-Continent (0223)	1,054	89	9	0.45	0	0	0	0	0	0	0	0	0	9
U.S. Gulf Coast to Northern Europe (0308)	26,103	1,044	58	0.74	0	0	0	0	0	0	0	0	0	58
U.S. Gulf Coast to Southern Europe (0309)	7,055	412	29	0.58	0	0	0	0	0	0	0	0	0	29
U.S. Gulf Coast to Japan (0310)	7,965	333	26	0.62	0	0	0	0	0	0	0	0	0	26
U.S. Gulf Coast to Australia/New Zealand (0311)	6,316	485	61	0.43	0	0	0	0	0	0	0	0	0	61
U.S. Gulf Coast to Far East NIC's (0312)	33,090	1,128	128	0.81	0	0	0	0	0	0	0	0	0	128
U.S. Gulf Coast to South America East Coast (0313)	28,390	4,058	321	0.34	0	0	0	0	0	0	0	0	0	321
U.S. Gulf Coast to South America West Coast (0314)	9,655	841	53	0.54	0	0	0	0	0	0	0	0	0	53
U.S. Gulf Coast to East Africa (0315)	141	12	1	0.55	0	0	0	0	0	0	0	0	0	1
U.S. Gulf Coast to West Africa (0316)	1,520	171	13	0.13	0	0	0	0	0	0	0	0	0	13
U.S. Gulf Coast to South Africa (0317)	917	371	32	0.02	0	0	0	0	0	0	0	0	0	32
U.S. Gulf Coast to Arabian Gulf (0318)	4,148	1,002	108	0.03	0	0	0	0	0	0	0	0	0	108
U.S. Gulf Coast to Other Med (0319)	16,218	1,141	75	0.43	0	0	0	0	0	0	0	0	0	75
U.S. Gulf Coast to China (0321)	8,754	640	82	0.48	0	0	0	0	0	0	0	0	0	82
U.S. Gulf Coast to South East Asia (0322)	6,628	221	30	0.53	0	0	0	0	0	0	0	0	0	30
U.S. Gulf Coast to Indian Sub-Continent (0323)	10,032	642	82	0.59	0	0	0	0	0	0	0	0	0	82
U.S. Southwest Coast to Northern Europe (0408)	4,149	227	15	0.76	0	0	0	0	0	0	0	0	0	15
U.S. Southwest Coast to Southern Europe (0409)	258	191	7	0.10	0	0	0	0	0	0	0	0	0	7
U.S. Southwest Coast to Japan (0410)	15,999	2,122	61	0.56	0	0	0	0	0	0	0	0	0	61
U.S. Southwest Coast to Australia/New Zealand (0411)	2,669	297	16	0.34	0	0	0	0	0	0	0	0	0	16
U.S. Southwest Coast to Far East NIC's (0412)	63,168	3,591	136	0.85	0	0	0	0	0	0	0	0	0	136
U.S. Southwest Coast to South America East Coast (0413)	1,952	516	28	0.23	0	0	0	0	0	0	0	0	0	28
U.S. Southwest Coast to South America West Coast (0414)	150	524	26	0.02	0	0	0	0	0	0	0	0	0	26
U.S. Southwest Coast to East Africa (0415)	26	1	0	0.71	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	47	7	0	0.28	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	187	7	0	0.68	0	0	0	0	0	0	0	0	0	0

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Route	Vessel Capacity Required				Vessel Capacity Available from 1987 Fleet									
	Cargo 000 Tons	Voyages	Ship Years	Capacity Util	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	Required Construction			
U.S. Southwest Coast to Arabian Gulf (0418)	197	27	3	0.32	0	0	0	0	0	0	3			
U.S. Southwest Coast to Other Med (0419)	136	120	2	0.20	0	0	0	0	0	0	2			
U.S. Southwest Coast to China (0421)	2,009	193	19	0.39	0	0	0	0	0	0	19			
U.S. Southwest Coast to South East Asia (0422)	10,611	1,252	43	0.49	0	0	0	0	0	0	43			
U.S. Southwest Coast to Indian Sub-Continent (0423)	2,091	162	10	0.64	0	0	0	0	0	0	10			
U.S. Northwest Coast to Northern Europe (0508)	1,108	164	9	0.40	0	0	0	0	0	0	9			
U.S. Northwest Coast to Southern Europe (0509)	1,202	67	4	0.77	0	0	0	0	0	0	4			
U.S. Northwest Coast to Japan (0510)	27,808	2,315	96	0.67	0	0	0	0	0	0	96			
U.S. Northwest Coast to Australia/New Zealand (0511)	1,990	100	5	0.70	0	0	0	0	0	0	5			
U.S. Northwest Coast to Far East NIC's (0512)	63,888	4,310	196	0.74	0	0	0	0	0	0	196			
U.S. Northwest Coast to South America East Coast (0513)	195	614	6	0.25	0	0	0	0	0	0	6			
U.S. Northwest Coast to South America West Coast (0514)	29	0	0	0.72	0	0	0	0	0	0	1			
U.S. Northwest Coast to East Africa (0515)	159	0	0	0.50	0	0	0	0	0	0	0			
U.S. Northwest Coast to West Africa (0516)	860	54	5	0.73	0	0	0	0	0	0	5			
U.S. Northwest Coast to Arabian Gulf (0518)	1,337	129	4	0.72	0	0	0	0	0	0	4			
U.S. Northwest Coast to Other Med (0519)	13,068	425	25	0.71	0	0	0	0	0	0	25			
U.S. Northwest Coast to China (0521)	5,757	449	37	0.66	0	0	0	0	0	0	37			
U.S. Northwest Coast to South East Asia (0522)	2,806	84	10	0.80	0	0	0	0	0	0	10			
U.S. Northwest Coast to Indian Sub-Continent (0523)	70,454	4,081	172	0.44	0	0	0	0	0	0	172			
Northern Europe to U.S. Northeast Coast (0801)	6,326	842	19	0.52	0	0	0	0	0	0	19			
Northern Europe to U.S. Gulf Coast (0803)	13,323	1,166	52	0.37	0	0	0	0	0	0	52			
Northern Europe to U.S. Southwest Coast (0804)	2,590	313	14	0.53	0	0	0	0	0	0	14			
Northern Europe to U.S. Northwest Coast (0805)	660	130	5	0.41	0	0	0	0	0	0	5			
Southern Europe to U.S. Northeast Coast (0901)	24,882	1,861	81	0.61	0	0	0	0	0	0	81			
Southern Europe to U.S. Southeast Coast (0902)	10,944	792	22	0.79	0	0	0	0	0	0	22			
Southern Europe to U.S. Gulf Coast (0903)	6,533	419	21	0.55	0	0	0	0	0	0	21			
Southern Europe to U.S. Southwest Coast (0904)	2,890	175	7	0.79	0	0	0	0	0	0	7			
Southern Europe to U.S. Northwest Coast (0905)	135	32	2	0.17	0	0	0	0	0	0	2			
Japan to U.S. Northeast Coast (1001)	3,568	919	36	0.31	0	0	0	0	0	0	36			
Japan to U.S. Southeast Coast (1002)	1,901	720	18	0.33	0	0	0	0	0	0	18			
Japan to U.S. Gulf Coast (1003)	9,800	2,183	53	0.33	0	0	0	0	0	0	53			
Japan to U.S. Southwest Coast (1004)	5,703	2,681	84	0.18	0	0	0	0	0	0	84			
Australia/New Zealand to U.S. Northeast Coast (1101)	7,182	253	14	0.80	0	0	0	0	0	0	14			
Australia/New Zealand to U.S. Southeast Coast (1102)	619	36	2	0.76	0	0	0	0	0	0	2			
Australia/New Zealand to U.S. Gulf Coast (1103)	19,696	748	39	0.68	0	0	0	0	0	0	39			
Australia/New Zealand to U.S. Southwest Coast (1104)	5,610	233	14	0.77	0	0	0	0	0	0	14			
Australia/New Zealand to U.S. Northwest Coast (1105)	3,019	114	8	0.82	0	0	0	0	0	0	8			
Far East NIC's to U.S. Northeast Coast (1201)	2,708	3,692	68	0.08	0	0	0	0	0	0	68			
Far East NIC's to U.S. Southeast Coast (1202)	1,445	3,470	55	0.06	0	0	0	0	0	0	55			
Far East NIC's to U.S. Gulf Coast (1203)	378	571	47	0.02	0	0	0	0	0	0	47			
Far East NIC's to U.S. Southwest Coast (1204)	18,164	2,876	128	0.28	0	0	0	0	0	0	128			
Far East NIC's to U.S. Northwest Coast (1205)	4,287	4,583	162	0.05	0	0	0	0	0	0	162			
South America East Coast to U.S. Northeast Coast (1301)	59,072	2,399	133	0.76	0	0	0	0	0	0	133			
South America East Coast to U.S. Southeast Coast (1302)	20,354	3,456	138	0.48	0	0	0	0	0	0	138			
South America East Coast to U.S. Gulf Coast (1303)	56,162	5,356	293	0.61	0	0	0	0	0	0	293			
South America East Coast to U.S. Southwest Coast (1304)	2,467	119	8	0.77	0	0	0	0	0	0	8			
South America East Coast to U.S. Northwest Coast (1305)	944	154	8	0.25	0	0	0	0	0	0	8			
South America West Coast to U.S. Northeast Coast (1401)	20,318	931	49	0.71	0	0	0	0	0	0	49			
South America West Coast to U.S. Southeast Coast (1402)	11,573	516	26	0.74	0	0	0	0	0	0	26			
South America West Coast to U.S. Gulf Coast (1403)	23,199	923	55	0.73	0	0	0	0	0	0	55			

2020 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shipyards

4/24/90

Route	Vessel Capacity Required			Vessel Capacity Available from 1987 Fleet						Ship Years	Required Construction
	Cargo 000 Tons	Voyages	Ship Years	Capacity Util	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years		
South America West Coast to U.S. Southwest Coast (1404)	4,318	432	25	0.65	0	0	0	0	0	0	25
South America West Coast to U.S. Northwest Coast (1405)	31	49	1	0.06	0	0	0	0	0	0	1
East Africa to U.S. Northeast Coast (1501)	9	12	1	0.04	0	0	0	0	0	0	1
East Africa to U.S. Southeast Coast (1502)	0	0	0	0.03	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	36	5	0	0.30	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0.09	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0.00	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	53,701	547	34	0.85	0	0	0	0	0	0	34
West Africa to U.S. Southeast Coast (1602)	23,761	209	15	0.85	0	0	0	0	0	0	15
West Africa to U.S. Southwest Coast (1603)	55,188	534	38	0.81	0	0	0	0	0	0	38
West Africa to U.S. Southwest Coast (1604)	138	8	1	0.59	0	0	0	0	0	0	1
West Africa to U.S. Northwest Coast (1605)	1	0	0	0.77	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	27,879	271	21	0.84	0	0	0	0	0	0	21
South Africa to U.S. Southeast Coast (1702)	12,538	45	1	0.85	0	0	0	0	0	0	1
South Africa to U.S. Gulf Coast (1703)	37,517	332	24	0.85	0	0	0	0	0	0	24
South Africa to U.S. Southwest Coast (1704)	43	2	0	0.79	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	4	0	0	0.57	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	39,071	819	65	0.76	0	0	0	0	0	0	65
Arabian Gulf to U.S. Southeast Coast (1802)	19,475	880	79	0.73	0	0	0	0	0	0	79
Arabian Gulf to U.S. Gulf Coast (1803)	158,849	1,115	111	0.84	0	0	0	0	0	0	111
Arabian Gulf to U.S. Southwest Coast (1804)	571	23	3	0.60	0	0	0	0	0	0	3
Arabian Gulf to U.S. Northwest Coast (1805)	27	15	2	0.08	0	0	0	0	0	0	2
Other Med to U.S. Northeast Coast (1901)	25,772	1,119	54	0.69	0	0	0	0	0	0	54
Other Med to U.S. Southeast Coast (1902)	2,701	275	4	0.69	0	0	0	0	0	0	4
Other Med to U.S. Gulf Coast (1903)	34,869	1,119	71	0.69	0	0	0	0	0	0	71
Other Med to U.S. Southwest Coast (1904)	280	44	1	0.77	0	0	0	0	0	0	1
Other Med to U.S. Northwest Coast (1905)	0	10	0	0.00	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	467	39	4	0.48	0	0	0	0	0	0	4
China to U.S. Southeast Coast (2102)	298	99	8	0.12	0	0	0	0	0	0	8
China to U.S. Gulf Coast (2103)	1,665	133	13	0.44	0	0	0	0	0	0	13
China to U.S. Southwest Coast (2104)	157	128	7	0.34	0	0	0	0	0	0	7
China to U.S. Northwest Coast (2105)	781	604	46	0.01	0	0	0	0	0	0	46
South East Asia to U.S. Northeast Coast (2201)	4,056	982	29	0.49	0	0	0	0	0	0	29
South East Asia to U.S. Southeast Coast (2202)	1,930	657	19	0.31	0	0	0	0	0	0	19
South East Asia to U.S. Gulf Coast (2203)	4,329	247	24	0.34	0	0	0	0	0	0	24
South East Asia to U.S. Southwest Coast (2204)	13,453	758	42	0.62	0	0	0	0	0	0	42
South East Asia to U.S. Northwest Coast (2205)	3,063	608	67	0.28	0	0	0	0	0	0	67
Indian Sub-Continent to U.S. Northeast Coast (2301)	921	138	11	0.21	0	0	0	0	0	0	11
Indian Sub-Continent to U.S. Southeast Coast (2302)	637	43	3	0.48	0	0	0	0	0	0	3
Indian Sub-Continent to U.S. Gulf Coast (2303)	2,663	380	44	0.30	0	0	0	0	0	0	44
Indian Sub-Continent to U.S. Southwest Coast (2304)	96	143	13	0.03	0	0	0	0	0	0	13
Indian Sub-Continent to U.S. Northwest Coast (2305)	10	94	10	0.00	0	0	0	0	0	0	10
Total	1,547,829	120,534	5,776		0	0	0	0	0	0	5,776

Northeast Coast

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipoyne General Cargo - Greater than 10,000 DWT (AA)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	2	237	536	2	491	642	3	549	718	3	593	776	3	587	767
Northern Europe to U.S. Northeast Coast (0801)	3	503	744	3	550	1,112	3	556	1,244	4	509	1,344	4	493	1,330
U.S. Northeast Coast to Southern Europe (0109)	2	523	523	2	575	1,085	3	595	1,316	4	519	1,927	6	488	2,734
Southern Europe to U.S. Northeast Coast (0901)	3	956	956	4	1,201	1,570	4	1,457	1,904	6	2,133	2,788	9	3,056	3,956
U.S. Northeast Coast to Japan (0110)	3	34	83	1	97	127	2	107	139	1	153	200	2	213	278
Japan to U.S. Northeast Coast (1001)	2	304	323	2	216	672	2	218	738	3	168	1,062	5	174	1,472
U.S. Northeast Coast to Australia/New Zealand (0111)	1	9	59	0	17	83	1	25	93	1	39	107	1	56	114
Australia/New Zealand to U.S. Northeast Coast (1101)	0	5	5	0	10	13	0	11	14	0	13	17	0	18	18
U.S. Northeast Coast to Far East NIC's (0112)	1	27	65	1	101	132	1	154	201	2	277	362	3	434	548
Far East NIC's to U.S. Northeast Coast (1201)	1	72	111	1	47	419	2	53	53	3	61	114	4	72	1,799
U.S. Northeast Coast to South America East Coast (0113)	12	217	2,430	7	327	1,956	2	502	638	7	823	1,929	7	1,219	2,053
South America East Coast to U.S. Northeast Coast (1301)	7	1,077	2,098	4	962	1,258	4	948	1,239	4	949	1,240	4	1,010	1,320
U.S. Northeast Coast to South America West Coast (0114)	2	157	502	1	141	184	1	181	236	1	273	356	2	413	539
South America West Coast to U.S. Northeast Coast (1401)	4	115	887	1	71	246	1	54	315	2	35	476	2	28	721
U.S. Northeast Coast to East Africa (0115)	1	56	72	0	48	65	0	72	94	1	120	154	2	172	225
East Africa to U.S. Northeast Coast (1501)	0	34	64	0	22	65	0	20	99	1	14	165	1	7	237
U.S. Northeast Coast to West Africa (0116)	2	104	282	1	90	117	1	113	147	2	184	241	2	269	351
West Africa to U.S. Northeast Coast (1601)	2	257	448	1	193	262	1	266	329	2	327	538	3	464	786
U.S. Northeast Coast to South Africa (0117)	3	161	471	1	165	262	1	235	307	2	342	446	3	436	569
South Africa to U.S. Northeast Coast (1701)	1	142	236	0	113	150	1	116	190	1	108	277	1	111	353
U.S. Northeast Coast to Arabian Gulf (0118)	3	65	510	0	81	107	0	111	145	0	209	273	2	352	461
Arabian Gulf to U.S. Northeast Coast (1801)	1	3	149	0	6	50	0	8	70	0	10	131	0	14	221
U.S. Northeast Coast to Other Med (0119)	4	583	887	4	993	1,297	6	1,293	1,600	6	1,260	1,647	4	964	1,260
Other Med to U.S. Northeast Coast (1901)	2	60	575	2	70	849	3	69	1,105	3	79	1,078	2	93	829
U.S. Northeast Coast to China (0121)	1	65	84	1	152	199	0	37	49	2	403	527	4	634	829
China to U.S. Northeast Coast (2101)	0	16	16	0	39	38	0	37	37	0	51	67	0	69	90
U.S. Northeast Coast to South East Asia (0122)	2	34	345	1	94	122	1	140	182	2	255	333	4	431	563
South East Asia to U.S. Northeast Coast (2201)	2	126	264	1	60	206	1	68	307	2	80	561	3	99	947
U.S. Northeast Coast to Indian Sub-Continent (0123)	2	208	364	1	212	278	2	333	435	4	579	757	6	855	1,117
Indian Sub-Continent to U.S. Northeast Coast (2301)	1	11	214	1	59	333	1	82	521	2	113	907	3	148	1,359
Total - U.S. Northeast Coast Routes	64	6,160	14,303	45	7,211	13,875	54	8,580	16,695	71	10,677	21,855	92	13,343	27,842
Total - US Routes	337	23,476	71,839	209	28,449	56,451	263	35,612	71,071	379	47,876	102,581	525	63,438	141,863

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype General Cargo - (Less than 10,000 DWT (AG))
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	6	149	586	3	208	325	3	236	350	4	265	393	4	270	399	4	270	399	4	270
Northern Europe to U.S. Northeast Coast (0801)	6	309	637	3	237	350	3	239	378	4	221	424	4	216	431	4	216	431	4	216
U.S. Northeast Coast to Southern Europe (0109)	1	24	28	1	25	37	1	28	41	1	31	46	1	31	46	1	31	46	1	31
Southern Europe to U.S. Northeast Coast (0901)	2	23	125	2	17	209	2	22	231	2	28	255	2	37	258	2	37	258	2	37
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	1	2	40	0	3	4	0	4	6	0	7	10	0	10	14	0	10	14	0	10
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	3	7	0	6	9	0	10	15	1	20	29	0	34	50	0	34	50	0	34
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	7	98	550	7	121	595	7	175	627	8	325	685	9	550	815	9	550	815	9	550
South America East Coast to U.S. Northeast Coast (1301)	7	308	664	6	333	493	7	350	519	8	383	567	8	424	675	8	424	675	8	424
U.S. Northeast Coast to South America West Coast (0114)	1	31	113	0	17	25	0	21	31	0	31	46	0	45	67	0	45	67	0	45
South America West Coast to U.S. Northeast Coast (1401)	1	46	158	0	16	28	0	11	32	0	6	47	1	4	69	1	4	69	1	4
U.S. Northeast Coast to East Africa (0115)	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	1	0	59	0	0	11	0	9	16	0	13	24	0	0	37	0	0	37	0	0
West Africa to U.S. Northeast Coast (1601)	0	9	48	0	6	9	0	9	13	0	13	20	0	20	30	0	20	30	0	20
U.S. Northeast Coast to South Africa (0117)	0	3	19	0	2	3	0	3	4	0	4	6	0	5	8	0	5	8	0	5
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	1	17	0	0	2	0	2	3	0	4	6	0	5	8	0	5	8	0	5
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	7	0	0	8	0	4	6	0	4	6	0	4	6	0	4	6	0	4
Other Med to U.S. Northeast Coast (1901)	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	1	4	68	1	2	78	1	3	52	0	3	33	0	4	19	0	4	19	0	4
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	8	14	0	3	4	0	3	4	0	3	5	0	5	6	0	5	6	0	5
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	5	8	0	6	9	0	6	9	0	7	11	0	8	11	0	8	11	0	8
Total - U.S. Northeast Coast Routes	35	1,029	3,167	24	1,014	2,206	25	1,133	2,348	28	1,363	2,623	32	1,684	2,969	32	1,684	2,969	32	1,684
Total - US Routes	184	3,657	15,320	75	3,169	6,058	89	3,734	7,111	129	5,029	10,024	185	6,790	14,132	185	6,790	14,132	185	6,790

4/24/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Container - Greater than 10,000 DWT (AC)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	5	1,490	2,593	7	2,453	4,093	8	2,575	4,215	7	2,756	4,068	7	2,756	4,068	7	3,071	4,124	7	3,071
Northern Europe to U.S. Northeast Coast (0801)	7	4,449	4,449	11	5,364	7,012	11	5,525	7,222	11	5,332	6,970	11	5,332	6,970	11	5,406	7,066	11	5,406
U.S. Northeast Coast to Southern Europe (0109)	3	530	1,477	4	938	2,076	5	1,023	2,412	7	1,159	3,206	9	1,159	3,206	9	1,223	4,391	9	1,223
Southern Europe to U.S. Northeast Coast (0901)	6	1,719	2,162	7	2,322	3,056	9	2,698	3,527	11	3,586	4,688	16	4,912	6,421	16	4,912	6,421	16	4,912
U.S. Northeast Coast to Japan (0110)	3	267	1,321	2	610	798	2	704	921	3	1,001	1,308	4	1,375	1,738	4	1,375	1,738	4	1,375
Japan to U.S. Northeast Coast (1001)	5	751	2,012	3	655	1,213	3	772	1,400	4	993	1,988	4	1,375	1,738	4	1,375	1,738	4	1,375
U.S. Northeast Coast to Australia/New Zealand (0111)	2	129	644	3	202	822	3	274	1,000	4	366	1,359	4	482	1,712	4	482	1,712	4	482
Australia/New Zealand to U.S. Northeast Coast (1101)	2	454	545	3	533	697	3	552	722	3	622	813	4	722	943	4	722	943	4	722
U.S. Northeast Coast to Far East NIC's (0112)	5	1,112	1,962	9	2,849	3,724	15	4,642	6,068	27	8,649	11,306	45	14,323	18,723	45	14,323	18,723	45	14,323
Far East NIC's to U.S. Northeast Coast (1201)	4	1,178	1,490	7	868	2,830	12	1,997	4,610	22	1,212	8,590	36	1,521	14,224	36	1,521	14,224	36	1,521
U.S. Northeast Coast to South America East Coast (0113)	4	1,117	1,490	8	2,06	3,429	9	3,03	3,546	10	2,567	3,355	12	3,028	3,999	12	3,028	3,999	12	3,028
South America East Coast to U.S. Northeast Coast (1301)	4	1,057	1,333	9	2,112	2,761	9	2,184	2,856	10	2,567	3,355	12	3,028	3,999	12	3,028	3,999	12	3,028
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	2	190	447	2	342	474	2	469	613	4	756	962	6	1,048	1,370	6	1,048	1,370	6	1,048
Arabian Gulf to U.S. Northeast Coast (1801)	2	35	435	2	34	538	2	40	697	4	75	962	6	1,048	1,370	6	1,048	1,370	6	1,048
U.S. Northeast Coast to Other Med (0119)	1	130	481	1	234	663	1	353	805	2	575	1,096	3	855	1,557	3	855	1,557	3	855
Other Med to U.S. Northeast Coast (0121)	1	306	367	2	388	507	2	470	615	3	641	837	4	914	1,195	4	914	1,195	4	914
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	1	0	404	0	29	37	0	38	53	0	71	95	0	112	146	0	112	146	0	112
U.S. Northeast Coast to South East Asia (0122)	2	274	790	5	503	2,075	6	754	2,264	6	1,446	2,528	9	2,630	3,437	9	2,630	3,437	9	2,630
South East Asia to U.S. Northeast Coast (2201)	2	750	750	6	1,507	1,970	6	1,645	2,150	7	1,836	2,400	9	2,015	2,634	9	2,015	2,634	9	2,015
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	62	14,951	25,038	92	22,562	39,178	109	26,604	46,087	147	34,861	61,167	204	46,925	83,966	204	46,925	83,966	204	46,925

Total - US Routes

405,474

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Less than 10,000 DWT (40)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northeast Coast to Northern Europe (0108)	2	81	257	2	245	324	3	176	361	3	295	386	3	295	386	3	295	386		
Northern Europe to U.S. Northeast Coast (0801)	2	105	240	2	241	315	2	246	351	2	234	376	2	234	376	2	235	375		
U.S. Northeast Coast to Southern Europe (0109)	0	0	0	0	13	17	0	14	18	0	16	20	0	16	20	0	16	21		
Southern Europe to U.S. Northeast Coast (0901)	0	22	22	1	288	376	1	302	394	2	317	414	2	317	414	2	326	427		
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	26	0	5	7	0	8	11	0	12	16	0	12	16	0	17	22		
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	4	0	5	7	0	10	13	0	10	13	0	17	22		
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to South America East Coast (0113)	2	59	439	5	211	881	5	344	958	6	552	1,056	6	552	1,056	6	888	1,172		
South America East Coast to U.S. Northeast Coast (1301)	2	374	497	6	822	1,075	6	895	1,169	7	986	1,289	7	986	1,289	7	1,094	1,430		
U.S. Northeast Coast to South America West Coast (0114)	1	19	69	0	28	103	0	35	98	0	56	86	0	56	86	1	84	110		
South America West Coast to U.S. Northeast Coast (1401)	1	64	126	1	72	95	1	69	90	1	61	79	1	61	79	1	61	101		
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	4	0	5	6	0	7	9	0	7	9	0	10	13		
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	1	0	1	2	0	2	3	0	2	3	0	3	4		
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	1	0	1	1	0	2	3	0	2	3	0	4	5		
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	0	4	0	2	3	0	4	5	0	4	5	0	4	5		
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to China (0121)	0	3	4	0	3	6	0	6	8	0	8	10	0	8	10	0	11	14		
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	2	0	1	2	0	2	2	0	2	2	0	2	3		
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	2	0	3	4	0	3	5	0	3	4	0	4	5		
Total - U.S. Northeast Coast Routes	10	730	1,680	17	1,948	3,221	19	2,216	3,487	20	2,568	3,776	22	2,568	3,776	22	3,054	4,119		
Total - US Routes	36	1,706	4,782	52	4,827	7,566	59	5,803	8,573	77	7,521	11,002	111	9,845	15,225	111	9,845	15,225		

3/14/07

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Ratio - Greater than 10,000 DWT (AE)
On U.S. Northeast Coast Routes

ROUTE	1987				1975				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	8	510	3,781	9	1,115	5,057	10	1,243	5,229	10	1,531	5,263	11	1,840	5,263	11	1,840	5,263	11	1,840
Northern Europe to U.S. Northeast Coast (0801)	7	2,870	3,935	9	3,732	5,183	9	3,874	5,380	9	3,917	5,441	10	4,193	5,441	10	4,193	5,441	10	4,193
U.S. Northeast Coast to Southern Europe (0109)	1	82	554	0	180	250	0	196	272	0	219	339	0	217	339	0	217	339	0	217
Southern Europe to U.S. Northeast Coast (0901)	1	96	428	0	158	297	0	191	323	0	289	402	0	388	402	0	388	402	0	388
U.S. Northeast Coast to Japan (0110)	1	113	406	1	222	308	1	228	317	1	233	324	1	221	324	1	221	324	1	221
Japan to U.S. Northeast Coast (1001)	2	0	847	2	1	871	2	1	896	2	1	916	2	1	916	2	1	916	2	1
U.S. Northeast Coast to Australia/New Zealand (0111)	1	18	229	0	36	947	2	50	1,057	2	73	1,581	3	101	1,581	3	101	1,581	3	101
Australia/New Zealand to U.S. Northeast Coast (1101)	0	17	31	0	44	61	0	49	68	0	74	102	0	98	102	0	98	102	0	98
U.S. Northeast Coast to Far East NIC's (0112)	2	118	541	1	330	458	3	603	837	5	1,112	1,545	7	1,701	1,545	7	1,701	1,545	7	1,701
Far East NIC's to U.S. Northeast Coast (1201)	0	61	165	0	46	915	1	53	1,671	1	66	3,083	2	85	3,083	2	85	3,083	2	85
U.S. Northeast Coast to South America East Coast (0113)	1	63	432	2	121	764	2	178	816	2	322	917	2	357	917	2	357	917	2	357
South America East Coast to U.S. Northeast Coast (1301)	1	290	395	1	426	592	1	456	633	1	512	710	2	556	710	2	556	710	2	556
U.S. Northeast Coast to South America West Coast (0114)	1	36	141	1	38	98	1	48	97	1	72	100	1	103	100	1	103	100	1	103
South America West Coast to U.S. Northeast Coast (1401)	1	109	234	0	115	160	0	114	158	0	103	164	0	101	164	0	101	164	0	101
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	1	21	174	0	21	47	0	28	67	1	52	100	1	81	100	1	81	100	1	81
West Africa to U.S. Northeast Coast (1601)	0	24	121	0	29	40	0	41	57	0	62	86	0	94	86	0	94	86	0	94
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	2	41	864	0	127	178	1	193	268	1	379	527	2	632	527	2	632	527	2	632
Arabian Gulf to U.S. Northeast Coast (1801)	1	8	340	0	18	188	0	25	287	0	33	563	1	44	563	1	44	563	1	44
U.S. Northeast Coast to Other Med (0119)	1	3	477	0	8	40	0	9	45	0	14	53	0	21	53	0	21	53	0	21
Other Med to U.S. Northeast Coast (1901)	0	1	41	0	2	2	0	2	2	0	2	3	0	3	3	0	3	3	0	3
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	2	0	557	0	17	23	0	22	31	0	30	42	0	40	42	0	40	42	0	40
South East Asia to U.S. Northeast Coast (2201)	1	5	161	0	0	16	0	0	18	0	0	22	0	0	22	0	0	22	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	32	43	0	49	69	0	80	112	0	156	217	1	299	217	1	299	217	1	299
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	14	20	0	19	26	0	24	33	0	29	33	0	29	33	0	29
Total - U.S. Northeast Coast Routes	34	4,520	14,894	29	6,852	16,567	32	7,709	18,674	38	9,281	22,563	46	11,469	27,782	46	11,469	27,782	46	11,469
Total - US Routes	100	9,293	38,142	60	15,888	33,720	70	19,444	40,712	92	26,383	55,502	126	35,388	75,361	126	35,388	75,361	126	35,388

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype BoRo - Less than 10,000 DWT (AF)
On U.S. Northeast Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	3	13	246	2	31	162	2	0	162	2	35	164	1	48	150	1	72	164	1	72
Northern Europe to U.S. Northeast Coast (0801)	1	41	78	0	43	60	0	0	60	0	44	61	0	40	56	0	39	56	0	39
U.S. Northeast Coast to Southern Europe (0109)	1	17	127	0	34	47	0	0	47	0	37	52	0	42	59	0	42	59	0	42
Southern Europe to U.S. Northeast Coast (0901)	0	0	77	0	1	22	0	0	22	0	1	24	0	2	27	0	3	27	0	3
U.S. Northeast Coast to Japan (0110)	0	3	23	0	5	7	0	0	7	0	5	8	0	6	9	0	7	10	0	7
Japan to U.S. Northeast Coast (1001)	0	12	30	0	8	14	0	0	14	0	8	14	0	4	17	0	2	18	0	2
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	2	45	237	3	64	414	3	0	414	3	92	448	4	158	545	5	256	648	5	256
South America East Coast to U.S. Northeast Coast (1301)	2	197	300	3	367	510	4	0	510	4	398	553	4	484	672	5	575	799	5	575
U.S. Northeast Coast to South America West Coast (0114)	0	0	9	0	0	9	0	0	9	0	5	7	0	0	4	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	7	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	2	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	7	0	0	20	0	0	20	0	2	3	0	4	5	0	5	7	0	5
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	1	17	0	1	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	39	0	0	55	0	0	55	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	2	16	0	1	2	0	0	2	0	1	2	0	2	6	0	2	6	0	2
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	6	0	0	6	0	5	6	0	5	8	0	7	9	0	7
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	11	332	1,216	9	568	1,267	10	635	1,359	11	801	1,576	13	1,015	1,812	108	6,936	10,690	108	6,936
Total - US Routes	127	2,502	11,441	68	3,507	6,849	76	4,139	7,616	90	5,433	8,950	108	6,936	10,690					

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship Type Reefer (BA)
On U.S. Northeast Coast Routes

3/16/90

ROUTE	1995					2000					2010					2020				
	SHIP YEARS	CAR- GO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northeast Coast to Northern Europe (0108)	2	65	143	1	64	118	1	70	129	1	58	108	1	47	108	1	47	108		
Northern Europe to U.S. Northeast Coast (0801)	1	92	122	1	75	153	1	63	166	1	37	139	1	20	139	1	20	139		
U.S. Northeast Coast to Southern Europe (0109)	0	3	12	0	8	14	0	9	16	0	9	17	0	9	17	0	9	16		
Southern Europe to U.S. Northeast Coast (0901)	0	2	77	0	3	104	1	3	121	1	5	127	1	7	127	1	7	124		
U.S. Northeast Coast to Japan (0110)	1	26	56	1	32	59	1	36	67	1	50	92	1	62	92	1	62	114		
Japan to U.S. Northeast Coast (1001)	1	5	43	1	3	52	1	2	59	1	1	80	1	0	80	1	0	100		
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Northeast Coast (1101)	0	21	34	0	16	29	0	14	27	0	8	15	0	4	15	0	4	7		
U.S. Northeast Coast to Far East NIC's (0112)	0	8	17	0	18	32	1	24	45	1	40	74	2	64	74	2	64	119		
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to South America East Coast (0113)	5	28	892	6	289	1,334	6	612	1,266	6	732	1,356	8	956	1,356	8	956	1,734		
South America East Coast to U.S. Northeast Coast (1301)	5	537	845	6	704	1,303	6	668	1,236	6	601	1,324	8	525	1,324	8	525	1,693		
U.S. Northeast Coast to South America West Coast (0114)	7	9	1,422	17	3	3,932	18	2	4,096	22	1	4,989	26	1	4,989	26	1	5,651		
South America West Coast to U.S. Northeast Coast (1401)	7	818	1,554	19	2,044	3,785	19	2,129	3,943	23	2,594	4,803	27	2,938	4,803	27	2,938	5,440		
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to West Africa (0116)	0	3	17	0	2	4	0	2	4	0	1	3	0	1	3	0	1	2		
West Africa to U.S. Northeast Coast (1601)	0	0	5	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0		
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Arabian Gulf (0118)	0	3	10	0	5	10	0	10	18	0	16	29	0	0	29	0	0	43		
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	25	0	0	33	0	0	61	1	0	100	1	0	100	1	0	146		
U.S. Northeast Coast to Other Med (0119)	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Northeast Coast (1901)	0	6	40	0	2	4	0	2	3	0	1	1	0	0	1	0	0	1		
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Northeast Coast (2101)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to South East Asia (0122)	0	3	15	5	4	170	4	6	155	0	9	156	0	0	156	0	0	156		
South East Asia to U.S. Northeast Coast (2201)	0	21	21	4	127	234	4	116	215	4	117	216	4	13	216	4	13	215		
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Northeast Coast Routes	30	1,650	5,362	62	3,396	11,373	63	3,768	11,628	73	4,279	13,631	83	4,765	13,631	83	4,765	15,758		
Total - US Routes	108	4,151	16,305	172	7,726	30,897	179	8,281	32,346	205	9,431	38,043	228	10,349	38,043	228	10,349	42,876		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - (less than 20,000 DWT (DA))
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	1	106	128	1	111	238	1	133	229	1	133	229	2	144	373
Northern Europe to U.S. Northeast Coast (0801)	1	120	339	2	434	567	2	417	545	3	541	707	4	715	935
U.S. Northeast Coast to Southern Europe (0109)	1	119	120	2	97	495	2	106	613	4	101	950	5	109	1,244
Southern Europe to U.S. Northeast Coast (0901)	1	171	171	3	469	613	3	580	759	5	900	1,176	7	1,179	1,541
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	10	52	0	13	17	0	16	21	0	19	25	0	24	32
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	8	17	1	57	75	1	60	79	1	93	122	1	135	177
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	2	111	311	2	119	502	2	99	433	1	74	280	1	55	163
South America East Coast to U.S. Northeast Coast (1301)	2	408	414	2	401	524	2	346	452	1	224	292	1	130	170
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	31	37	0	21	28	0	16	21	0	8	11	0	4	5
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	12	1	186	188	1	276	361	2	465	608	3	781	789
West Africa to U.S. Northeast Coast (1601)	0	14	38	0	0	0	0	0	0	2	0	0	3	0	1,021
U.S. Northeast Coast to South Africa (0117)	0	0	17	0	0	0	0	0	0	2	0	0	3	0	0
South Africa to U.S. Northeast Coast (1701)	0	17	17	0	46	60	0	64	83	1	79	103	0	96	125
U.S. Northeast Coast to Arabian Gulf (0118)	0	18	56	0	1	1	0	1	1	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	17	17	0	309	404	0	322	421	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	43	43	2	20	26	2	24	31	2	273	357	1	176	231
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	33	43	0	54	71
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	29	29	0	30	39	0	32	42	0	29	38	0	20	27
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	31	37	0	30	40	1	52	68	1	87	113	1	114	149
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	9	1,238	1,885	17	2,345	4,060	19	2,544	4,438	23	3,060	5,592	29	3,739	7,076
Total - US Routes	82	5,982	15,269	84	8,342	16,982	90	8,915	18,008	99	9,603	19,071	117	10,934	21,991

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 20,000 to 40,000 DWT (08)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	6	1,391	2,635	5	2,018	2,577	6	2,468	3,152	7	2,928	3,739	8	3,330	4,317					
Northern Europe to U.S. Northeast Coast (0801)	7	1,368	4,188	6	1,377	3,945	8	1,358	4,825	9	1,023	5,724	11	1,740	6,409					
U.S. Northeast Coast to Southern Europe (0109)	6	2,115	2,115	8	2,760	3,526	9	2,903	4,161	14	2,792	6,467	18	2,710	8,434					
Southern Europe to U.S. Northeast Coast (0901)	8	2,420	3,329	11	3,744	4,967	13	4,590	5,862	20	7,134	9,111	26	9,293	11,869					
U.S. Northeast Coast to Japan (0710)	8	1,117	1,480	7	1,178	1,504	8	1,108	1,414	3	558	1,434	2	269	343					
Japan to U.S. Northeast Coast (1001)	9	512	2,198	8	453	3,027	8	1,444	2,846	4	324	1,587	2	269	343					
U.S. Northeast Coast to Australia/New Zealand (0111)	1	5	133	1	2	348	1	2	1,125	2	1,405	1,794	2	2,178	2,781					
Australia/New Zealand to U.S. Northeast Coast (1101)	1	169	378	2	834	1,065	3	880	1,125	4	1,405	1,794	6	2,178	2,781					
U.S. Northeast Coast to Far East NIC's (0112)	6	1,261	1,271	8	2,253	2,677	8	2,484	3,172	10	2,940	3,755	11	3,233	4,129					
Far East NIC's to U.S. Northeast Coast (1201)	2	71	565	3	43	1,641	3	41	1,810	4	37	2,142	4	34	2,355					
U.S. Northeast Coast to South America East Coast (0113)	7	1,543	2,421	10	1,513	3,674	9	1,217	3,409	7	856	2,462	5	598	1,736					
South America East Coast to U.S. Northeast Coast (1301)	4	1,755	1,961	5	2,058	2,628	5	1,909	2,439	3	1,379	1,761	2	972	1,241					
U.S. Northeast Coast to South America West Coast (0114)	1	84	353	1	219	335	1	252	321	1	381	486	1	455	581					
South America West Coast to U.S. Northeast Coast (1401)	1	354	495	1	278	355	1	228	341	1	130	155	2	66	616					
U.S. Northeast Coast to East Africa (0115)	0	11	108	0	5	12	0	6	9	0	2	2	0	0	0					
East Africa to U.S. Northeast Coast (1501)	0	20	76	0	9	27	0	3	34	0	1	48	0	0	1					
U.S. Northeast Coast to West Africa (0116)	0	7	76	0	3	27	0	3	34	0	1	48	0	0	1					
West Africa to U.S. Northeast Coast (1601)	0	44	221	0	50	64	0	61	78	0	87	111	0	140	179					
U.S. Northeast Coast to South Africa (0117)	1	18	356	0	8	154	1	11	187	1	14	212	1	17	246					
South Africa to U.S. Northeast Coast (1701)	2	107	463	1	169	215	1	205	262	1	232	297	3	269	344					
U.S. Northeast Coast to Arabian Gulf (0118)	2	221	629	1	246	315	1	327	418	2	537	686	3	676	863					
Arabian Gulf to U.S. Northeast Coast (1801)	0	9	36	0	2	61	0	2	81	0	1	132	0	0	167					
U.S. Northeast Coast to Other Med (0119)	4	1,630	1,630	7	2,734	3,492	7	2,623	3,349	6	2,141	2,734	4	1,375	1,756					
Other Med to U.S. Northeast Coast (1901)	2	17	887	4	10	1,930	3	10	1,851	3	11	1,511	2	14	1,971					
U.S. Northeast Coast to China (0121)	1	80	180	1	203	259	2	325	415	4	670	856	8	1,239	1,583					
China to U.S. Northeast Coast (2101)	0	3	25	0	6	59	0	7	95	1	5	195	1	3	362					
U.S. Northeast Coast to South East Asia (0122)	3	27	608	1	122	156	1	179	228	2	301	385	3	422	538					
South East Asia to U.S. Northeast Coast (2201)	5	996	996	1	17	104	2	18	592	3	18	977	4	14	1,397					
U.S. Northeast Coast to Indian Sub-Continent (0123)	2	491	566	4	668	853	6	986	1,259	9	1,525	1,947	11	2,008	2,565					
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	9	52	0	5	146	1	4	215	1	4	333	1	3	438					
Total - U.S. Northeast Coast Routes	90	16,858	30,464	97	22,986	40,634	106	24,655	44,323	122	27,437	51,140	140	30,400	58,086					
Total - US Routes	646	87,212	206,137	558	111,051	203,615	628	122,762	232,001	673	128,477	253,047	752	137,203	287,952					

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COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 40,000 to 80,000 DWT (DC)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northeast Coast to Northern Europe (0108)	6	4,608	5,510	9	7,200	8,889	11	8,792	10,854	13	10,702	13,212	15	12,479	15,406					
Northern Europe to U.S. Northeast Coast (0801)	7	1,432	6,830	10	1,530	11,488	12	1,514	14,028	15	1,062	17,076	17	676	19,911					
U.S. Northeast Coast to Southern Europe (0109)	5	3,376	3,598	7	4,984	6,153	8	5,598	6,911	9	6,128	7,566	9	6,300	7,777					
Southern Europe to U.S. Northeast Coast (0901)	3	35	2,509	4	689	4,433	5	840	4,978	5	1,304	5,450	6	1,715	5,602					
U.S. Northeast Coast to Japan (0110)	3	706	1,157	2	986	1,217	3	951	1,174	2	507	686	1	499	713					
Japan to U.S. Northeast Coast (1001)	3	699	1,260	3	692	1,739	2	737	1,677	1	636	895	1	578	713					
U.S. Northeast Coast to Australia/New Zealand (0111)	3	3	1,069	3	7	1,138	3	8	1,213	5	5	1,934	1	2	3,021					
Australia/New Zealand to U.S. Northeast Coast (1101)	1	304	304	1	1,211	1,494	1	1,291	1,593	1	2,058	2,540	2	3,214	3,967					
U.S. Northeast Coast to Far East NIC's (0112)	2	522	522	3	1,549	1,913	4	1,674	2,066	4	1,941	2,396	5	2,109	2,604					
Far East NIC's to U.S. Northeast Coast (1201)	1	80	450	3	60	1,456	3	62	1,573	3	60	1,824	3	58	1,982					
U.S. Northeast Coast to South America East Coast (0113)	6	2,871	4,779	9	2,957	7,327	8	2,382	6,710	6	1,683	4,651	4	1,131	1,982					
South America East Coast to U.S. Northeast Coast (1301)	3	2,464	2,865	4	3,408	4,208	4	3,121	3,854	3	2,163	2,671	2	1,401	1,729					
U.S. Northeast Coast to South America West Coast (0114)	0	42	84	0	60	100	0	62	85	0	74	91	0	82	101					
South America West Coast to U.S. Northeast Coast (1401)	0	181	219	0	173	214	0	147	182	0	89	194	0	50	215					
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0					
East Africa to U.S. Northeast Coast (1501)	0	0	43	0	2	2	0	24	29	0	9	11	0	0	0					
U.S. Northeast Coast to West Africa (0116)	0	62	209	0	27	33	0	12	31	0	8	12	0	0	0					
West Africa to U.S. Northeast Coast (1601)	0	3	224	0	13	36	0	12	2	0	0	3	0	0	0					
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	2	0	186	229	0	195	241	0	0	0					
South Africa to U.S. Northeast Coast (1701)	0	106	167	0	165	204	0	60	74	0	95	118	0	0	0					
U.S. Northeast Coast to Arabian Gulf (0118)	0	61	65	0	46	56	0	60	74	0	95	118	0	0	0					
Arabian Gulf to U.S. Northeast Coast (1801)	0	47	234	0	9	170	0	7	222	0	3	355	0	0	0					
U.S. Northeast Coast to Other Med (0119)	1	1,085	1,085	4	2,310	2,851	3	2,189	2,702	3	1,776	2,195	3	1,138	2,877					
Other Med to U.S. Northeast Coast (1901)	1	134	373	1	280	2,976	1	301	925	3	432	751	1	623	769					
U.S. Northeast Coast to China (0121)	0	74	127	1	155	191	1	233	287	1	436	539	1	733	905					
China to U.S. Northeast Coast (2101)	0	74	74	0	21	26	0	18	22	0	9	11	0	0	0					
U.S. Northeast Coast to South East Asia (0122)	3	37	767	1	159	196	1	197	244	1	334	412	2	479	591					
South East Asia to U.S. Northeast Coast (2201)	1	23	391	0	49	100	0	49	124	1	73	210	1	107	301					
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	94	105	1	251	310	1	385	475	2	660	815	3	959	1,184					
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	12	43	0	42	131	1	34	201	1	24	345	1	16	501					
Total - U.S. Northeast Coast Routes	50	19,137	35,063	68	29,016	57,055	74	30,876	62,468	80	32,469	67,143	89	34,457	73,919					
Total - US Routes	391	84,816	193,869	328	107,537	204,354	369	119,897	230,207	354	119,065	228,221	351	117,619	232,577					

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Bulk Carriers - 80,000 to 100,000 DWT (00)
On U.S. Northeast Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northeast Coast to Northern Europe (0108)	1	600	856	2	2,150	2,515	2	2,637	3,084	3	3,240	3,790	3	3,790	4,433	3	3,790	4,433		
Northern Europe to U.S. Northeast Coast (0801)	1	126	697	1	2,229	2,438	2	2,227	2,990	2	159	3,674	3	100	4,297	3	100	4,297		
U.S. Northeast Coast to Southern Europe (0109)	2	1,754	1,800	3	2,995	3,503	3	3,075	3,597	3	3,080	3,603	3	2,932	3,429	3	2,932	3,429		
Southern Europe to U.S. Northeast Coast (0901)	0	0	409	1	7	798	1	9	819	1	13	821	1	20	781	1	20	781		
U.S. Northeast Coast to Japan (0110)	0	0	0	0	137	161	0	133	156	0	72	84	0	37	44	0	37	44		
Japan to U.S. Northeast Coast (1001)	0	0	0	0	108	126	0	116	136	0	102	120	0	93	109	0	93	109		
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	1	1	0	1	2	0	1	1	0	0	0	0	0	0		
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	108	220	0	201	235	0	320	374	0	500	585	0	500	585		
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	203	238	0	218	255	0	251	294	0	272	318	0	272	318		
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	9	11	0	10	11	0	9	11	0	9	11	0	9	11		
U.S. Northeast Coast to South America East Coast (0113)	0	126	162	1	514	1,433	1	446	1,316	1	367	455	0	302	558	0	302	558		
South America East Coast to U.S. Northeast Coast (1301)	0	65	82	1	621	1,727	1	570	667	0	389	455	0	242	283	0	242	283		
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	4	4	0	3	4	0	1	1	0	0	0	0	0	0		
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	22	26	0	19	22	0	12	14	0	7	8	0	7	8		
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	5	5	0	4	5	0	2	2	0	0	0	0	0	0		
West Africa to U.S. Northeast Coast (1601)	0	1	82	0	7	8	0	8	9	0	7	8	0	5	6	0	5	6		
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	26	28	0	27	31	0	28	32	0	30	35	0	30	35		
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	1	2	0	1	1	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	326	379	0	306	358	0	248	290	0	199	186	0	199	186		
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	49	58	0	53	62	0	76	89	0	110	128	0	110	128		
U.S. Northeast Coast to China (0121)	0	0	0	0	21	25	0	31	36	0	56	66	0	91	106	0	91	106		
China to U.S. Northeast Coast (2101)	0	0	0	0	4	4	0	3	3	0	1	2	0	1	1	0	1	1		
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	26	28	0	29	34	0	50	58	0	71	84	0	71	84		
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	8	10	0	8	10	0	13	15	0	19	22	0	19	22		
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	26	28	0	37	44	0	69	81	0	107	125	0	107	125		
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	7	9	0	6	7	0	4	5	0	3	3	0	3	3		
Total - U.S. Northeast Coast Routes	4	2,670	4,088	9	7,690	12,785	10	8,180	13,894	10	8,571	14,787	10	8,901	15,554	10	8,901	15,554		
Total - US Routes	6	3,792	5,943	16	20,555	29,809	18	22,677	32,912	17	22,361	32,556	17	21,827	32,219	17	21,827	32,219		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 100,000 to 175,000 DWT (DE)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	3	4,003	5,439	4	6,451	7,545	5	7,953	9,302	6	9,876	11,550	7	11,589	13,555
Northern Europe to U.S. Northeast Coast (0801)	4	1,100	8,292	5	1,130	11,532	6	1,137	14,218	8	1,112	17,654	9	2,75	20,718
U.S. Northeast Coast to Southern Europe (0109)	1	1,080	1,127	1	1,849	2,163	1	2,039	2,385	2	2,210	2,585	2	2,241	2,621
Southern Europe to U.S. Northeast Coast (0901)	0	0	308	0	0	532	0	0	587	0	0	636	0	0	645
U.S. Northeast Coast to Japan (0110)	5	3,370	4,452	4	3,199	3,741	4	3,070	3,591	2	1,538	1,799	1	740	865
Japan to U.S. Northeast Coast (1001)	0	0	147	0	0	131	0	0	126	0	0	63	0	0	30
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	165	0	0	79	0	0	85	0	0	84	0	0	74
Australia/New Zealand to U.S. Northeast Coast (1101)	1	198	550	0	289	338	0	310	363	0	306	358	0	271	317
U.S. Northeast Coast to Far East NIC's (0112)	1	673	815	2	1,201	1,405	2	1,289	1,507	2	1,484	1,735	2	1,605	1,877
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	0	446	0	147	422	0	108	268	0	77	134
South America East Coast to U.S. Northeast Coast (1301)	1	170	349	0	178	1,302	1	147	1,233	0	108	783	0	334	391
U.S. Northeast Coast to South America West Coast (0114)	0	873	1,107	1	1,114	0	1	1,054	0	0	669	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	130	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	106	209	0	52	60	0	39	46	0	20	23	0	12	14
U.S. Northeast Coast to South Africa (0117)	1	0	1,545	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	565	571	1	907	1,061	1	881	1,030	0	724	846	0	466	545
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	1	0	1,487	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	142	167	0	141	165	0	170	199	0	166	194
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
Total - U.S. Northeast Coast Routes	19	11,137	26,692	19	15,512	30,502	21	17,060	35,058	22	17,216	38,583	23	17,577	41,981
Total - US Routes	43	25,011	55,271	38	31,318	56,274	44	35,695	65,663	43	34,324	68,298	42	32,948	70,850

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Bulk Carriers - Greater than 175,000 DWT (OF)
On U.S. Northeast Coast Routes

3/14/90

ROUTE	On U.S. Northeast Coast Routes 1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Northeast Coast to Northern Europe (0108)	0	0	186	0	1,109	1,297	0	1,367	1,599	1	1,698	1,986	1	1,992	2,330	
Northern Europe to U.S. Northeast Coast (0801)	0	0	364	1	23	2,509	1	24	3,094	1	20	3,842	1	13	4,508	
U.S. Northeast Coast to Southern Europe (0109)	0	0	0	0	258	302	0	292	342	0	325	380	0	336	393	
Southern Europe to U.S. Northeast Coast (0901)	0	0	180	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to Japan (0110)	1	533	911	1	1,193	1,395	1	1,148	1,343	1	575	673	0	277	324	
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	186	0	51	60	0	55	64	0	54	63	0	48	56	
U.S. Northeast Coast to Far East NIC's (0112)	0	136	186	1	497	581	1	533	623	1	614	718	1	664	776	
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to South America East Coast (0113)	0	0	372	0	30	35	0	24	28	0	16	19	0	10	12	
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	194	227	0	184	215	0	117	136	0	58	68	
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to East Africa (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	9	10	0	7	8	0	3	4	0	2	2	
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	160	187	0	155	182	0	128	149	0	82	96	
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	287	336	0	285	333	0	344	402	0	336	393	
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	
Total - U.S. Northeast Coast Routes	2	669	2,384	3	3,811	6,940	3	4,074	7,830	3	3,893	8,372	3	3,819	8,940	
Total - US Routes	2	669	3,119	3	7,332	11,062	3	8,043	12,477	3	7,363	12,435	3	6,818	12,472	

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Combination Carriers - Less than 20,000 DWT (EA)
On U.S. Northeast Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northeast Coast (0801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - US Routes	1	177	300	1	146	269	1	127	250	1	90	196	1	60	140

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 20,000 to 40,000 DWT (EB)
On U.S. Northeast Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northeast Coast (0801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	1	32	456	0	61	192	0	57	181	0	43	141	0	30	102

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Combination Carriers - 40,000 to 80,000 DWT (EC)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	1	524	1,212	1	632	780	1	715	863	1	808	998	1	920	1,136	1	920	1,136	1	920
Northern Europe to U.S. Northeast Coast (0801)	1	857	1,522	1	516	1,191	1	501	1,348	1	364	1,523	1	225	1,735	1	225	1,735	1	225
U.S. Northeast Coast to Southern Europe (0109)	2	2,100	2,100	3	2,725	3,364	3	2,795	3,451	3	2,800	3,457	3	2,664	3,208	3	2,664	3,208	3	2,664
Southern Europe to U.S. Northeast Coast (0901)	1	0	993	1	0	1,538	2	0	1,578	2	0	1,581	1	0	1,504	1	0	1,504	1	0
U.S. Northeast Coast to Japan (0110)	0	100	156	0	124	153	0	101	125	0	49	61	0	22	27	0	22	27	0	22
Japan to U.S. Northeast Coast (0001)	0	0	46	0	0	43	0	0	35	0	0	17	0	0	8	0	0	8	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	116	148	0	208	257	0	223	275	1	257	317	1	278	343	1	278	343	1	278
Far East NIC's to U.S. Northeast Coast (1201)	0	0	8	0	0	15	0	0	16	0	0	0	0	0	20	0	0	20	0	0
U.S. Northeast Coast to South America East Coast (0113)	1	845	1,527	2	851	1,841	2	679	1,731	1	456	1,233	1	280	768	1	280	768	1	280
South America East Coast to U.S. Northeast Coast (1301)	1	1,496	1,496	2	1,321	1,631	2	1,262	1,534	1	865	1,093	1	551	681	1	551	681	1	551
U.S. Northeast Coast to South America West Coast (0114)	0	69	197	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	54	54	0	40	49	0	24	29	0	7	8	0	2	2	0	2	2	0	2
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	132	0	0	550	0	0	713	0	0	1,020	0	0	1,374	0	0	1,374	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	69	69	0	201	248	0	261	322	0	373	460	0	491	607	0	491	607	0	491
Arabian Gulf to U.S. Northeast Coast (1801)	0	434	460	1	695	858	1	670	827	1	548	677	0	352	435	0	352	435	0	352
U.S. Northeast Coast to Other Med (0119)	1	762	1,034	2	335	2,760	2	417	2,659	2	495	2,176	1	335	1,399	1	335	1,399	1	335
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	4	4	0	38	46	0	37	46	0	45	56	0	45	56	0	45	56	0	45
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	11	7,412	11,111	14	7,686	15,326	14	7,665	15,572	13	7,088	14,697	11	6,365	13,353	11	6,365	13,353	11	6,365
Total - US Routes	33	16,526	29,815	28	16,180	32,061	29	16,256	32,997	27	14,850	31,485	24	13,432	28,883	24	13,432	28,883	24	13,432

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 80,000 to 100,000 DWT (ED)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northeast Coast to Northern Europe (0108)	1	400	667	1	739	865	1	900	1,053	1	1,104	1,291	1	1,291	1,510	1	1,291	1,510		
Northern Europe to U.S. Northeast Coast (0801)	1	940	1,241	1	671	1,618	1	651	1,970	1	1,473	2,415	2	292	2,824	2	292	2,824		
U.S. Northeast Coast to Southern Europe (0109)	0	496	496	1	1,409	1,648	1	1,544	1,806	1	1,664	1,946	1	1,680	1,965	1	1,680	1,965		
Southern Europe to U.S. Northeast Coast (0901)	0	0	345	0	0	1,018	1	0	1,116	1	0	1,203	1	0	1,214	1	0	1,214		
U.S. Northeast Coast to Japan (0110)	0	0	0	0	22	26	0	18	21	0	9	10	0	0	5	0	4	5		
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Far East NIC's (0112)	0	157	191	1	318	371	1	341	398	1	392	459	1	424	496	1	424	496		
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to South America East Coast (0113)	0	0	85	0	150	496	0	120	466	0	81	337	0	49	216	0	49	216		
South America East Coast to U.S. Northeast Coast (1301)	0	74	85	0	272	318	0	256	299	0	185	217	0	118	138	0	118	138		
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	4	5	0	1	1	0	0	0	0	0	0		
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Other Med (0119)	0	297	297	0	36	42	0	46	54	0	66	77	0	87	101	0	87	101		
Other Med to U.S. Northeast Coast (1901)	0	427	427	0	593	694	0	431	504	0	296	346	0	174	389	0	174	389		
U.S. Northeast Coast to China (0121)	0	0	0	0	262	940	0	327	683	0	399	469	0	450	527	0	450	527		
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	5	6	0	6	7	0	6	7	0	7	8	0	7	8		
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	27	31	0	34	40	0	45	52	0	57	66	0	57	66		
Total - U.S. Northeast Coast Routes	3	2,792	4,010	5	4,518	8,088	5	4,685	8,430	5	4,727	8,840	5	4,641	9,468	6	4,641	9,468		
Total - US Routes	7	5,089	8,448	11	8,560	15,898	11	9,199	16,824	11	9,121	16,753	11	8,688	16,358	11	8,688	16,358		

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 100,000 to 175,000 DWT (EE)
On U.S. Northeast Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	2	2,500	3,349	3	4,036	4,720	3	4,976	5,819	4	6,178	7,226	5	7,251	8,480					
Northern Europe to U.S. Northeast Coast (0801)	1	2,059	2,059	1	2,083	4,853	2	2,019	5,984	2	1,466	7,430	3	1,906	8,720					
U.S. Northeast Coast to Southern Europe (0109)	3	2,193	2,262	4	2,826	3,306	4	3,155	3,660	4	3,372	3,944	4	3,450	4,055					
Southern Europe to U.S. Northeast Coast (0901)	0	0	587	0	0	444	1	0	496	1	0	530	1	0	542					
U.S. Northeast Coast to Japan (0110)	0	200	246	0	200	234	0	193	226	0	97	113	0	0	47					
Japan to U.S. Northeast Coast (1001)	0	0	82	0	0	60	0	0	58	0	0	29	0	0	14					
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to Far East NIC's (0112)	1	363	440	1	698	817	1	749	876	1	862	1,009	1	933	1,091					
Far East NIC's to U.S. Northeast Coast (1201)	0	0	41	0	0	89	0	0	96	0	0	110	0	0	119					
U.S. Northeast Coast to South America East Coast (0113)	1	435	1,593	1	437	1,630	1	348	1,530	1	234	1,125	0	0	735					
South America East Coast to U.S. Northeast Coast (1301)	1	1,088	1,088	0	911	1,066	0	855	1,001	0	629	735	0	0	411					
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	21	24	0	24	28	0	22	25	0	18	21					
U.S. Northeast Coast to East Africa (0115)	0	0	207	0	0	0	0	0	0	0	0	0	0	0	0					
East Africa to U.S. Northeast Coast (1501)	0	0	324	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to West Africa (0116)	0	0	236	0	0	249	0	0	149	0	0	41	0	0	0					
West Africa to U.S. Northeast Coast (1601)	0	408	488	0	483	565	0	288	337	0	79	93	0	18	22					
U.S. Northeast Coast to South Africa (0117)	0	0	310	0	0	0	0	0	0	0	0	0	0	0	0					
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to Arabian Gulf (0118)	1	0	653	1	0	0	0	0	0	0	0	0	0	0	0					
Arabian Gulf to U.S. Northeast Coast (1801)	0	417	417	1	2,028	3,762	1	2,627	4,874	2	3,758	6,973	2	4,952	9,188					
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	83	2,372	0	55	3,072	1	35	4,396	1	20	5,792					
Other Med to U.S. Northeast Coast (1901)	0	338	342	0	188	220	0	234	273	0	279	326	0	305	357					
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
China to U.S. Northeast Coast (2101)	0	0	86	0	1	1	0	1	1	0	1	1	0	1	1					
U.S. Northeast Coast to South East Asia (0122)	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0					
South East Asia to U.S. Northeast Coast (2201)	0	0	202	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	5	6	0	6	8	0	8	10	0	10	12					
Total - U.S. Northeast Coast Routes	11	10,081	15,185	13	14,000	24,516	15	15,531	28,582	16	17,022	34,158	18	18,465	35,697					
Total - US Routes	25	16,463	36,876	20	23,204	40,753	22	25,757	46,253	24	27,170	52,149	26	28,748	57,805					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - Greater than 175,000 DWT (EF)
in U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northeast Coast to Northern Europe (0108)	0	0	0	0	693	810	0	854	999	0	1,060	1,240	0	1,244	1,455					
Northern Europe to U.S. Northeast Coast (0801)	0	0	0	0	349	409	0	339	396	0	246	288	0	152	178					
U.S. Northeast Coast to Southern Europe (0109)	0	0	0	0	470	550	0	574	613	0	599	653	0	571	668					
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to Japan (0110)	0	0	0	0	35	41	0	34	40	0	17	20	0	8	10					
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to Far East MIC's (0112)	0	0	0	0	114	134	0	123	144	0	141	165	0	153	179					
Far East MIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	77	90	0	61	72	0	41	48	0	25	30					
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	160	187	0	150	175	0	110	129	0	72	84					
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	4	4	0	4	5	0	4	4	0	3	4					
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	95	100	0	51	99	0	14	16	0	3	4					
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	358	419	0	464	542	0	663	776	0	874	1,022					
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	27	31	0	33	39	0	40	46	0	43	50					
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	4	5	0	4	5	0	6	8	0	10	11					
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Total - U.S. Northeast Coast Routes	0	0	0	0	2,376	2,779	0	2,641	3,089	0	2,902	3,394	0	3,199	3,694					
Total - US Routes	0	203	585	1	4,624	5,410	1	5,261	6,155	1	5,895	6,897	2	6,593	7,713					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipyard Tankers - Less than 10,000 DWT (FA)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	8	39	0	12	41	0	5	46	0	7	49	0	10	51	0	10	51	0	10
Northern Europe to U.S. Northeast Coast (0801)	3	208	339	3	273	356	3	301	393	4	324	424	4	333	435	4	333	435	4	333
U.S. Northeast Coast to Southern Europe (0109)	2	14	22	0	12	16	0	15	20	0	25	33	0	39	51	0	39	51	0	39
Southern Europe to U.S. Northeast Coast (0901)	2	4	195	1	6	145	1	6	185	2	7	305	2	7	466	4	7	466	4	7
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	39	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	1	40	133	2	80	167	0	113	192	0	197	258	3	315	412	0	315	412	0	315
South America East Coast to U.S. Northeast Coast (1301)	1	184	208	2	184	240	2	211	276	3	272	372	3	333	594	5	333	594	5	333
U.S. Northeast Coast to South America West Coast (0114)	0	0	6	0	0	22	0	0	26	0	0	26	0	0	25	0	0	25	0	0
South America West Coast to U.S. Northeast Coast (0115)	1	88	91	1	118	155	2	137	180	2	139	182	2	130	170	2	130	170	2	130
U.S. Northeast Coast to East Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	2	8	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	1	143	150	1	131	172	2	170	223	2	232	38	2	303	397	3	303	397	3	303
Other Med to U.S. Northeast Coast (1901)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	2	3	0	2	2	0	1	1	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	9	2	0	85	1	0	64	1	0	37	0	0	19	0	0	19	0	0
South East Asia to U.S. Northeast Coast (2201)	0	14	14	4	129	169	3	97	127	2	56	73	2	28	37	1	28	37	1	28
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	108	141	0	132	172	0	152	199	0	167	218	0	167	218	0	167
Total - U.S. Northeast Coast Routes	12	743	1,345	18	1,056	1,735	18	1,190	1,934	20	1,412	2,301	25	1,665	2,923	25	1,665	2,923	25	1,665
Total - US Routes	54	4,432	6,566	95	5,659	9,172	115	6,360	11,192	163	7,674	16,272	233	9,406	23,421	233	9,406	23,421	233	9,406

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 10,000 to 40,000 DWT (FB,
On U.S. Northeast Coast Routes
1995

3/14/90

ROUTE	1987				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	6	348	3,115	10	516	5,123	12	615	22	6,578	11,490	34	617	17,855		
Northern Europe to U.S. Northeast Coast (0801)	12	6,191	7,995	18	9,545	12,477	24	12,256	41	16,020	27,983	64	33,266	43,485		
U.S. Northeast Coast to Southern Europe (0109)	6	1,102	3,052	0	124	162	0	125	0	163	143	0	130	170		
Southern Europe to U.S. Northeast Coast (0901)	6	73	2,958	0	86	168	0	97	0	170	149	0	133	177		
U.S. Northeast Coast to Japan (0110)	1	69	293	0	96	125	0	109	0	143	157	0	133	198		
Japan to U.S. Northeast Coast (1001)	1	44	101	0	61	94	0	73	0	108	119	0	115	150		
U.S. Northeast Coast to Australia/New Zealand (0111)	0	18	42	0	16	20	0	20	0	26	32	0	32	42		
Australia/New Zealand to U.S. Northeast Coast (1101)	0	38	101	0	16	20	0	20	0	26	32	0	32	42		
U.S. Northeast Coast to Far East NIC's (0112)	1	43	217	0	91	118	0	157	1	19	24	0	0	31		
Far East NIC's to U.S. Northeast Coast (1201)	2	27	375	1	29	153	1	36	2	206	378	2	494	666		
U.S. Northeast Coast to South America East Coast (0113)	21	31	2,196	3	27	345	4	38	5	56	489	3	88	637		
South America East Coast to U.S. Northeast Coast (1301)	16	1,118	8,980	2	1,150	1,503	3	1,322	4	1,728	2,224	4	2,081	2,720		
U.S. Northeast Coast to South America West Coast (0114)	1	22	495	2	42	1,059	3	64	4	1,312	1,650	4	230	1,877		
South America West Coast to U.S. Northeast Coast (1401)	1	665	752	3	1,164	1,522	4	1,442	5	1,865	2,341	6	2,063	2,697		
U.S. Northeast Coast to East Africa (0115)	0	0	147	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northeast Coast (1501)	0	0	258	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to West Africa (0116)	0	0	157	0	3	52	0	4	0	45	31	0	6	20		
West Africa to U.S. Northeast Coast (1601)	3	311	1,170	1	307	401	1	270	0	353	238	0	119	156		
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Northeast Coast (1701)	0	101	101	1	182	238	1	245	2	321	467	2	500	653		
U.S. Northeast Coast to Arabian Gulf (0118)	2	35	901	6	120	2,845	8	82	9	3,422	3,912	11	68	4,675		
Arabian Gulf to U.S. Northeast Coast (1801)	5	1,765	1,765	17	4,530	5,921	20	5,448	23	7,122	8,142	27	7,443	9,730		
U.S. Northeast Coast to Other Med (0119)	2	19	1,143	2	63	1,123	3	82	4	1,457	1,986	5	168	2,405		
Other Med to U.S. Northeast Coast (1901)	2	811	1,047	2	769	1,005	2	998	3	1,304	1,778	4	1,784	2,332		
U.S. Northeast Coast to China (0121)	0	15	28	1	11	110	0	13	0	94	59	0	26	34		
China to U.S. Northeast Coast (2101)	1	203	203	5	607	793	4	520	0	679	824	0	186	250		
U.S. Northeast Coast to South East Asia (0122)	1	24	205	2	41	344	2	58	2	346	424	1	181	250		
South East Asia to U.S. Northeast Coast (2201)	2	421	421	4	575	752	4	546	4	713	867	2	675	883		
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	13	57	1	20	238	1	33	1	286	325	1	101	354		
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	53	53	1	170	223	1	204	1	267	304		253	331		
Total - U.S. Northeast Coast Routes	95	12,631	38,087	83	20,344	36,951	99	24,657	136	45,431	66,458	185	50,963	95,960		

Total - US Routes

295 57,310 113,686 449 88,983 168,596 491 99,642 184,180 548 115,683 214,393 684 147,117 270,379

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipoye Tankers - 40,000 to 80,000 DWT (FC)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	1	98	802	2	233	2,354	2	131	2,978	4	175	5,071	6	225	7,324	7	225	7,324	7	225
Northern Europe to U.S. Northeast Coast (0801)	1	486	991	2	2,211	2,823	3	2,797	3,573	5	4,763	6,063	7	7,324	9,353	7	7,324	9,353	7	7,324
U.S. Northeast Coast to Southern Europe (0109)	1	40	687	0	45	58	0	43	56	0	27	63	0	25	77	0	25	77	0	25
Southern Europe to U.S. Northeast Coast (0901)	0	0	242	0	15	22	0	17	25	0	21	24	0	23	30	0	23	30	0	23
U.S. Northeast Coast to Japan (0110)	0	0	0	0	17	22	0	19	25	0	15	19	0	15	27	0	15	27	0	15
U.S. Northeast Coast to New Zealand (0111)	0	0	0	0	11	14	0	13	17	0	15	19	0	15	27	0	15	27	0	15
U.S. Northeast Coast to Australia/New Zealand (0112)	0	0	0	0	3	3	0	4	5	0	4	6	0	4	6	0	4	6	0	4
Australia/New Zealand to U.S. Northeast Coast (1101)	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	16	20	0	28	35	0	51	65	0	87	111	0	87	111	0	87
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	5	7	0	6	8	0	10	13	0	16	20	0	16	20	0	16
U.S. Northeast Coast to South America East Coast (0113)	9	0	1,789	13	2	1,949	14	3	2,214	18	2	2,789	22	15,942	3,364	22	15,942	3,364	22	15,942
South America East Coast to U.S. Northeast Coast (1301)	8	9,607	10,748	12	9,239	11,800	14	10,492	13,400	17	13,219	16,882	21	15,942	20,360	21	15,942	20,360	21	15,942
U.S. Northeast Coast to South America West Coast (0114)	1	0	1,469	3	7	2,737	4	11	3,275	4	23	3,666	4	41	3,843	4	41	3,843	4	41
South America West Coast to U.S. Northeast Coast (1401)	2	2,449	2,617	5	3,825	4,865	6	4,576	5,844	6	5,122	6,542	7	5,377	6,867	7	5,377	6,867	7	5,377
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	186	0	1	55	0	1	55	0	1	54	0	1	55	0	1	54	0	1
West Africa to U.S. Northeast Coast (1601)	1	180	1,203	0	264	338	0	266	339	0	258	330	0	264	337	0	264	337	0	264
U.S. Northeast Coast to South Africa (0117)	0	0	124	0	11	372	1	13	513	1	19	761	1	28	1,070	1	28	1,070	1	28
South Africa to U.S. Northeast Coast (1701)	0	124	124	0	255	325	1	351	448	1	521	665	1	732	935	1	732	935	1	732
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	151	0	21	27	0	14	19	0	13	17	0	12	15	0	12	15	0	12
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	134	0	799	1,021	0	961	1,228	0	1,099	1,404	0	1,314	1,678	0	1,314	1,678	0	1,314
U.S. Northeast Coast to Other Med (0119)	0	0	134	0	11	179	0	14	232	0	21	316	0	30	414	0	30	414	0	30
Other Med to U.S. Northeast Coast (1901)	1	1,567	1,594	2	1,570	2,005	2	2,035	2,599	3	2,770	3,538	3	3,625	4,630	4	3,625	4,630	4	3,625
U.S. Northeast Coast to China (0121)	0	0	0	0	2	2	0	2	3	0	3	4	0	5	6	0	5	6	0	5
China to U.S. Northeast Coast (2101)	0	0	0	0	108	138	0	92	118	0	58	74	0	33	42	0	33	42	0	33
U.S. Northeast Coast to South East Asia (0122)	0	0	123	0	7	145	0	10	188	0	18	148	0	32	172	0	32	172	0	32
South East Asia to U.S. Northeast Coast (2201)	0	53	124	0	126	161	0	120	153	0	128	163	0	149	191	0	149	191	0	149
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	4	5	0	6	7	0	11	13	0	18	23	0	18	23	0	18
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	27	34	0	32	41	0	37	47	0	40	51	0	40	51	0	40
Total - U.S. Northeast Coast Routes	27	14,634	23,129	40	18,855	31,505	47	22,059	37,345	61	28,409	48,784	75	35,394	61,509	75	35,394	61,509	75	35,394
Total - US Routes	86	29,704	65,984	103	46,737	78,561	121	52,707	90,542	134	61,848	104,145	166	75,131	129,619	166	75,131	129,619	166	75,131

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship Type Tankers - 80,000 to 100,000 DWT (FD)
On U.S. Northeast Coast Routes

ROUTE	1987				1997				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	3	0	3,469	2	25	2,576	2	2	10	2,512	1	15	1	1,885	1	1	1,885	1	1	1,885
Northern Europe to U.S. Northeast Coast (0801)	4	6,230	6,610	3	3,940	4,864	0	0	3,842	4,743	2	2,883	2	2,883	3,559	1	1,930	2,333	1	1,930
U.S. Northeast Coast to Southern Europe (0109)	1	0	971	0	4	5	0	0	0	5	0	0	0	0	2	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	1	0	1,231	0	0	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	5	0	9,237	7	0	10,225	8	0	0	11,020	9	0	0	12,611	0	10	0	14,167	0	14,167
South America East Coast to U.S. Northeast Coast (1301)	4	6,815	7,657	6	6,528	8,050	6	7,036	8,687	8	8,052	9,941	8	9,045	11,167	8	9,045	11,167	8	11,167
U.S. Northeast Coast to South America West Coast (0114)	0	0	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	608	608	0	2,176	2,686	0	2,809	3,467	1	3,881	4,791	1	4,838	5,973	1	4,838	5,973	1	5,973
U.S. Northeast Coast to East Africa (0115)	0	0	387	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	643	0	0	176	0	0	0	180	0	0	0	179	0	0	0	187	0	187
U.S. Northeast Coast to West Africa (0116)	1	0	742	0	0	279	0	0	0	284	0	0	0	283	0	0	0	296	0	296
West Africa to U.S. Northeast Coast (1601)	1	166	981	0	226	279	0	230	290	3	229	283	0	229	283	0	240	296	0	296
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	2	421	0	2	2	3	0	0	0	3	4	0	5	6	0	6
South Africa to U.S. Northeast Coast (1701)	0	0	720	1	341	766	1	470	580	3	697	861	0	697	861	0	980	1,210	0	1,210
U.S. Northeast Coast to Arabian Gulf (0118)	1	0	266	0	275	340	1	346	427	1	357	441	1	357	441	1	359	443	1	443
Arabian Gulf to U.S. Northeast Coast (1801)	0	239	266	0	275	340	1	346	427	1	357	441	1	357	441	1	359	443	1	443
U.S. Northeast Coast to Other Med (0119)	1	0	1,061	1	0	1,052	1	0	1,360	1	0	1,835	2	0	2,375	2	0	2,375	2	2,375
Other Med to U.S. Northeast Coast (1901)	2	2,578	2,633	2	2,431	3,002	3	3,143	3,880	4	4,239	5,233	4	4,239	5,233	5	5,487	6,775	5	6,775
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	263	0	0	2	0	0	2	2	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	1	0	798	0	5	6	0	5	6	6	5	6	0	5	6	0	5	6	0	6
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	26	16,636	38,894	22	15,954	34,468	24	17,896	38,122	27	20,363	42,631	29	22,912	47,255	29	22,912	47,255	29	47,255
Total - US Routes	95	43,275	112,339	63	44,251	78,020	65	48,056	83,244	66	52,550	89,900	70	58,172	98,715	70	58,172	98,715	70	98,715

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship Type Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Northeast Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	1	0	1,695	1	0	2,107	1	1,899	0	2,043	1	0	1	1,337	1,494	0	0	0	0	0
Northern Europe to U.S. Northeast Coast (0801)	1	1,967	1,967	1	1,967	2,221	1	1,899	1,861	2,153	1	0	1	0	1,564	0	826	916	0	0
U.S. Northeast Coast to Southern Europe (0109)	0	0	1,018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	1	0	1,570	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	254	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	252	2	0	3,812	0	2,477	0	3,728	2	0	0	2,210	3,402	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	2	0	4,659	1	0	2,897	0	1,176	2,422	2,833	1	0	0	0	2,565	0	1,977	3,043	0	0
South America East Coast to U.S. Northeast Coast (1301)	1	3,064	3,446	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,312	0	0
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	258	258	0	0	1,375	0	0	1,565	1,831	0	0	0	2,330	2,714	0	3,025	3,538	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	1	0	1,157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	3	0	6,332	4	0	7,018	0	18,458	23,178	8,813	6	0	0	32,027	12,177	0	0	15,482	0	0
West Africa to U.S. Northeast Coast (1601)	10	12,140	18,240	11	0	21,508	14	0	0	27,109	19	0	0	0	37,458	40,718	0	47,684	0	0
U.S. Northeast Coast to South Africa (0117)	1	0	1,380	2	0	3,514	3	0	7,420	5,050	5	0	0	0	7,917	0	0	11,202	0	0
South Africa to U.S. Northeast Coast (1701)	2	2,606	2,606	4	0	6,038	6	0	0	8,678	9	0	0	11,632	13,605	12	16,460	19,252	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	660	2	0	2,901	3	0	8,754	3,756	4	0	0	0	5,341	0	0	7,012	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	1	1,395	1,395	6	0	7,909	8	0	0	10,239	11	0	0	12,451	14,562	15	16,345	19,117	0	0
U.S. Northeast Coast to Other West (0119)	1	0	1,177	0	0	0	0	0	497	581	0	0	0	669	783	0	865	1,012	0	0
Other West to U.S. Northeast Coast (1901)	0	0	0	0	384	449	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	1	0	507	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	1	0	1,416	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	28	21,430	50,396	34	36,319	61,830	43	45,677	106,191	76,812	59	62,647	105,592	75	80,216	131,474	183,327	302,855		
Total - US Routes	86	46,330	153,437	80	85,252	145,146	99	106,191	179,040	133	143,821	238,940	169							

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - Greater than 250,000 DWT (FG)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northeast Coast (0801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - US Routes	26	29,156	73,643	53	67,935	128,838	67	84,775	217,955	122	147,902	278,039	122	147,902	278,039

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For ShipType Gas Tankers (GA)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020			CAPACITY 000 TONS
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Northeast Coast to Northern Europe (0108)	0	1	283	0	0	1	0	0	1	0	0	1	0	0	0	1
Northern Europe to U.S. Northeast Coast (0801)	1	142	333	0	0	0	0	0	0	0	0	0	0	0	0	1
U.S. Northeast Coast to Southern Europe (0109)	0	1	270	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	0	0	271	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	142	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	9	17	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	1	6	387	2	81	556	2	136	610	2	238	529	3	399	886	886
South America East Coast to U.S. Northeast Coast (1301)	1	161	302	1	178	395	1	195	434	1	163	376	2	121	630	630
U.S. Northeast Coast to South America West Coast (0114)	0	0	84	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	103	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	241	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	45	45	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	287	3	0	2,206	5	0	3,112	8	0	0	13	0	0	0
Other Med to U.S. Northeast Coast (1901)	1	384	437	7	1,946	4,323	10	2,745	6,099	16	4,641	10,514	25	7,101	15,780	8,053
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	1	0	186	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	8	749	3,594	14	2,205	7,484	18	3,076	10,258	28	5,043	16,486	43	7,620	25,350	
Total - US Routes	70	3,540	21,365	49	5,185	22,894	56	6,747	29,175	64	9,384	39,007	86	12,788	52,852	

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Vehicle Carriers (HB)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	5	0	2,577	3	0	2,515	3	0	2,406	2	0	2,406	2	0	1,612	1	0	1,612	1	961
Northern Europe to U.S. Northeast Coast (0801)	6	333	2,733	4	276	3,072	3	264	2,999	2	177	2,999	2	177	1,969	1	106	1,969	1	1,173
U.S. Northeast Coast to Southern Europe (0109)	1	0	625	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	1	0	341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	19	0	2,713	23	0	6,172	22	0	5,892	17	0	5,892	17	0	4,677	12	0	4,677	12	3,265
Japan to U.S. Northeast Coast (1001)	24	745	3,495	28	690	7,670	27	658	7,310	22	523	7,310	22	523	5,813	15	366	5,813	15	4,058
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	5	0	668	12	0	6,399	15	0	8,446	25	0	8,446	25	0	13,770	36	0	13,770	36	19,832
Far East NIC's to U.S. Northeast Coast (1201)	1	92	222	3	171	1,903	5	226	2,512	7	369	2,512	7	369	4,096	11	531	4,096	11	5,899
U.S. Northeast Coast to South America East Coast (0113)	6	0	1,185	4	0	1,341	6	0	1,838	9	0	1,838	9	0	2,803	12	0	2,803	12	3,609
South America East Coast to U.S. Northeast Coast (1301)	3	28	1,448	2	61	674	3	83	1,924	5	127	1,924	5	127	1,409	6	163	1,409	6	1,814
U.S. Northeast Coast to South America West Coast (0114)	2	0	436	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	1	0	375	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	2	0	474	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	1	0	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	1	0	253	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	1	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	1	0	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	3	0	343	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	2	0	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	85	1,199	17,280	79	1,199	29,746	84	1,232	32,259	89	1,196	36,149	94	1,165	40,611					

Total - US Routes

103,936

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Product Tankers - Less than 10,000 DWT (PA)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	21	41	0	34	44	0	36	47	1	46	60	1	52	68	0	0	0	0	0
Northern Europe to U.S. Northeast Coast (0801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	1	12	57	0	10	13	0	13	17	0	23	30	0	35	45	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	1	2	0	1	2	0	2	2	0	2	2	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	3	7	0	3	4	0	3	4	0	3	4	0	4	5	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	1	17	161	0	22	28	0	30	39	0	48	63	1	74	97	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	0	5	17	0	9	11	0	13	17	0	26	34	0	46	60	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	33	43	0	43	56	0	58	76	0	76	99	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	13	1	0	22	0	0	16	0	0	9	0	0	5	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	1	27	27	1	32	42	1	24	32	0	14	18	0	7	9	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	27	35	0	33	43	0	38	50	0	42	55	0	0	0	0	0
Total - U.S. Northeast Coast Routes	4	86	377	2	171	245	2	198	275	2	257	346	2	337	445					
Total - US Routes	19	737	2,017	28	1,002	3,004	33	1,209	3,630	38	1,514	4,325	44	2,004	5,157					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Product Tankers - 10,000 to 40,000 DWT (PB)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	0	0	12	16	0	0	12	16	0	12	0	0	15
Northern Europe to U.S. Northeast Coast (0801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	0	0	0	0	2	2	0	0	2	3	0	4	0	0	8
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	25	32	0	0	28	36	31	37	0	37	48
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	1	1	0	0	1	1	0	1	0	0	1
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	4	5	0	0	5	7	8	13	0	0	17
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	2	2	0	0	2	3	5	8	0	0	11
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	192	251	0	0	249	326	340	444	0	0	583
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	49	64	0	0	78	102	139	182	0	0	298
U.S. Northeast Coast to China (2101)	0	121	38	2	152	198	1	1	130	170	81	106	1	1	61
China to U.S. Northeast Coast (2102)	2	332	121	0	10	63	0	0	14	60	26	45	0	0	74
U.S. Northeast Coast to South East Asia (0122)	4	693	964	1	144	188	1	1	136	178	145	189	1	1	221
South East Asia to U.S. Northeast Coast (2201)	1	45	147	0	75	98	1	1	128	167	252	329	3	3	562
U.S. Northeast Coast to Indian Sub-Continent (0123)	1	18	283	1	43	184	1	1	51	314	58	618	3	3	1,056
Indian Sub-Continent to U.S. Northeast Coast (2301)	8	912	1,885	4	709	1,104	5	5	838	1,383	1,101	2,011	9	1,504	2,954
Total - U.S. Northeast Coast Routes	40	4,148	10,671	22	4,008	7,064	23	4,347	7,740	25	5,022	8,575	30	6,171	10,414

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Product Tankers - 40,000 to 80,000 DWT (PC)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	1	100	1,370	2	150	1,973	2	102	2,520	4	135	4,337	6	164	6,683
Northern Europe to U.S. Northeast Coast (0801)	2	1,365	1,924	2	2,069	2,643	3	2,643	3,376	4	4,550	5,811	7	7,011	8,954
U.S. Northeast Coast to Southern Europe (0109)	1	58	895	4	38	3,672	5	34	4,218	4	14	3,359	3	6	2,632
Southern Europe to U.S. Northeast Coast (0901)	1	1,178	1,178	5	4,177	5,334	6	4,798	6,127	5	3,821	4,880	4	2,994	3,824
U.S. Northeast Coast to Japan (0110)	0	22	49	0	31	39	0	35	45	0	38	48	0	41	53
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to U.S. Northeast Coast (1102)	0	69	76	0	23	29	0	40	51	0	76	97	0	130	167
Far East NIC's to U.S. Northeast Coast (1201)	0	10	35	0	0	34	0	0	59	0	0	112	0	0	193
U.S. Northeast Coast to South America East Coast (0113)	0	0	42	0	0	7,536	10	0	8,666	13	0	11,152	16	0	13,642
U.S. Northeast Coast to U.S. Northeast Coast (0114)	7	5,533	5,533	9	5,951	7,600	10	6,844	8,740	13	8,807	11,248	16	10,773	13,759
South America East Coast to U.S. Northeast Coast (0115)	7	6,269	6,269	1	798	1,107	1	0	1,285	1	1,018	1,300	1	955	1,219
South America West Coast to U.S. Northeast Coast (0116)	0	0	554	1	867	1,107	1	1,007	1,285	1	0	0	0	0	0
U.S. Northeast Coast to East Africa (0117)	1	54	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0118)	0	0	225	0	0	96	0	0	92	0	0	81	0	0	75
West Africa to U.S. Northeast Coast (1601)	0	95	307	0	102	130	0	98	125	0	86	110	0	80	102
U.S. Northeast Coast to South Africa (0117)	0	0	116	0	0	154	0	0	211	0	0	312	1	1	438
South Africa to U.S. Northeast Coast (1701)	0	129	165	0	177	226	0	242	309	1	358	457	1	503	642
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	284	0	0	776	2	0	959	2	0	1,201	3	0	1,498
Arabian Gulf to U.S. Northeast Coast (1801)	1	594	594	4	1,796	2,294	5	2,221	2,537	7	2,780	3,550	8	3,467	4,428
U.S. Northeast Coast to Other Med (0119)	1	0	691	1	0	557	1	0	722	1	0	982	1	1	1,285
Other Med to U.S. Northeast Coast (1901)	1	392	673	0	392	501	1	509	650	1	693	884	1	906	1,157
U.S. Northeast Coast to China (0121)	0	0	673	0	9	11	0	14	18	0	25	31	0	40	51
China to U.S. Northeast Coast (2101)	0	0	120	0	27	34	0	23	30	0	14	18	0	8	11
U.S. Northeast Coast to South East Asia (0122)	1	0	176	0	2	37	0	3	35	0	5	37	0	8	44
South East Asia to U.S. Northeast Coast (2201)	1	13	235	0	32	40	0	30	38	0	32	41	0	37	48
U.S. Northeast Coast to Indian Sub-Continent (0123)	1	50	150	0	97	124	0	161	206	1	315	403	2	532	680
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	42	0	7	34	0	8	56	0	9	110	1	10	185
Total - U.S. Northeast Coast Routes	26	10,574	22,009	41	15,945	35,778	49	18,812	42,302	99	22,774	51,497	72	27,667	62,647

Total - US Routes

107,039

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 80,000 to 100,000 DWT (PD)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northeast Coast to Northern Europe (0108)	0	0	344	0	26	681	1	18	876	1	24	1,536	2	29	2,392					
Northern Europe to U.S. Northeast Coast (0801)	0	388	568	1	966	1,193	1	1,243	1,534	1	2,179	2,691	2	3,364	4,190					
U.S. Northeast Coast to Southern Europe (0109)	0	0	170	1	7	1,525	1	6	1,752	1	2	1,395	1	1	1,092					
Southern Europe to U.S. Northeast Coast (0901)	0	0	81	1	736	909	1	846	1,044	1	673	831	0	527	1,661					
U.S. Northeast Coast to Japan (0110)	0	0	175	0	5	7	0	6	8	0	7	8	0	7	9					
Japan to U.S. Northeast Coast (1001)	0	0	81	0	0	3	0	0	3	0	0	4	0	0	4					
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Australia/New Zealand to U.S. Northeast Coast (1101)	0	76	84	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	4	5	0	7	9	0	13	16	0	23	28					
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
South America East Coast to U.S. Northeast Coast (1301)	1	0	1,862	2	0	2,961	3	0	3,405	3	0	4,392	4	0	5,360					
U.S. Northeast Coast to South America West Coast (0114)	0	1,614	1,738	3	2,663	3,288	3	3,063	3,781	4	3,941	4,866	5	4,821	5,952					
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	153	189	0	178	219	0	180	222	0	168	208					
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
East Africa to U.S. Northeast Coast (1501)	0	0	175	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	18	22	0	17	21	0	15	19	0	14	17					
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	31	39	0	43	53	0	63	78	0	89	109					
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	84	1	0	686	1	0	865	1	0	1,050	1	0	1,268					
Arabian Gulf to U.S. Northeast Coast (1801)	0	77	81	1	411	507	1	511	630	1	620	765	1	749	924					
U.S. Northeast Coast to Other Med (0119)	0	0	168	0	0	281	0	0	364	0	0	491	0	0	635					
Other Med to U.S. Northeast Coast (1901)	0	554	554	1	608	750	1	786	970	1	1,060	1,308	1	1,372	1,694					
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to South East Asia (0122)	0	0	175	0	0	1	0	0	1	0	0	1	0	0	1					
South East Asia to U.S. Northeast Coast (2201)	0	0	258	0	1	2	0	1	1	0	1	1	0	1	2					
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	15	18	0	24	30	0	48	59	0	81	99					
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Total - U.S. Northeast Coast Routes	5	2,709	6,599	9	5,645	13,078	11	6,748	15,568	14	8,826	19,723	18	11,277	24,638					
Total - US Routes	20	11,023	26,428	31	17,882	40,945	33	19,356	43,702	38	22,862	50,894	46	27,968	60,826					

Total - US Routes

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 100,000 to 175,000 DWT (PE)
On U.S. Northeast Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northeast Coast (0801)	0	100	108	0	0	305	0	337	394	0	598	699	0	936	1,095
U.S. Northeast Coast to Southern Europe (0109)	0	0	108	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	0	0	108	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	323	0	0	0	0	327	383	0	421	493	0	515	603
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	108	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	216	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	1,093	1	1,255	1,467	1	1,584	1,853	2	2,204	2,577	2	2,810	3,287
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	1,507	0	1,852	2,166	0	2,905	3,398	0	4,111	4,808
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	17	19	0	21	24	0	23	27	0	24	28
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	166	0	181	212	0	235	274	0	289	338
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	1	919	2,064	1	3,247	3,797	1	4,303	5,032	2	6,385	7,468	2	8,686	10,159
Total - US Routes	2	1,428	3,457	4	7,765	12,240	4	9,967	14,746	5	14,280	19,796	5	19,276	25,724

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Product Tankers - 175,000 to 250,000 DWT (PF)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northeast Coast (0801)	0	0	0	0	0	27	0	0	32	0	0	0	0	0	0	0	0	73	0	98
U.S. Northeast Coast to Southern Europe (0109)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	221	0	0	259	0	0	0	0	0	0	0	0	455	0	496
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	227	0	0	266	0	0	0	0	0	0	0	0	600	0	726
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	8	0	0	9	0	0	0	0	0	0	0	0	14	0	13
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	0	0	0	0	0	484	0	0	566	0	652	762	0	976	1,142	0	1,332	1,558	0	1,558
Total - US Routes	0	0	0	0	0	1,005	0	0	1,175	0	1,365	1,596	0	2,036	2,381	0	2,797	3,271	0	3,271

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Other Ships (XX)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	2	84	791	2	167	968	3	176	1,081	3	157	1,202	3	141	1,284
Northern Europe to U.S. Northeast Coast (0801)	2	359	478	2	484	598	2	541	668	2	601	742	3	642	793
U.S. Northeast Coast to Southern Europe (0109)	1	23	352	0	34	127	1	34	181	1	29	280	1	26	425
Southern Europe to U.S. Northeast Coast (0901)	1	40	268	0	76	94	0	108	133	1	167	206	1	253	312
U.S. Northeast Coast to Japan (0110)	2	3	288	1	5	182	1	5	250	3	5	356	3	5	507
Japan to U.S. Northeast Coast (1001)	2	170	345	1	182	225	2	250	309	2	356	440	4	508	627
U.S. Northeast Coast to Australia/New Zealand (0111)	1	0	46	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	1	30	167	1	100	124	1	164	203	2	332	409	4	628	775
Far East NIC's to U.S. Northeast Coast (1201)	1	11	131	1	59	97	1	90	160	2	167	323	4	294	611
U.S. Northeast Coast to South America East Coast (0113)	3	32	431	8	46	1,005	9	60	1,136	11	86	1,375	13	286	1,611
South America East Coast to U.S. Northeast Coast (1301)	2	568	568	8	1,026	1,266	9	1,159	1,430	10	1,403	1,732	12	1,644	2,030
U.S. Northeast Coast to South America West Coast (0114)	0	16	37	0	20	24	0	22	27	0	22	28	0	22	27
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	54	66	0	48	59	0	53	65	0	63	77
U.S. Northeast Coast to East Africa (0115)	1	0	374	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	1	0	333	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	64	0	0	9	0	0	16	0	0	27	0	0	43
South Africa to U.S. Northeast Coast (1701)	0	3	49	0	3	4	0	5	7	0	9	11	0	14	18
U.S. Northeast Coast to Arabian Gulf (0118)	1	105	499	1	249	307	1	381	471	2	665	821	3	1,021	1,260
Arabian Gulf to U.S. Northeast Coast (1801)	1	0	244	1	0	235	1	0	359	1	0	627	2	0	962
U.S. Northeast Coast to Other Med (0119)	1	11	514	0	19	24	0	26	32	0	26	32	0	21	25
Other Med to U.S. Northeast Coast (1901)	0	0	6	0	0	1	0	0	2	0	0	2	0	0	1
U.S. Northeast Coast to China (0121)	0	7	32	0	12	15	0	13	15	0	14	18	0	14	17
China to U.S. Northeast Coast (2101)	0	0	0	0	7	9	0	8	10	0	12	15	0	18	23
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	9	11	0	11	14	0	14	17	0	14	17
South East Asia to U.S. Northeast Coast (2201)	2	3	459	0	9	13	0	5	18	0	7	22	0	9	22
U.S. Northeast Coast to Indian Sub-Continent (0123)	3	5	590	0	4	11	0	10	12	0	8	10	0	7	8
Indian Sub-Continent to U.S. Northeast Coast (2301)	1	0	333	0	1	10	0	2	11	0	3	10	0	3	8
Total - U.S. Northeast Coast Routes	29	1,472	7,832	26	2,566	5,427	31	3,116	6,603	41	4,137	8,769	54	5,473	11,485
Total - US Routes	121	4,312	39,929	104	8,033	24,083	134	9,808	28,048	179	12,739	35,395	220	16,255	43,535

Southeast Coast

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shipyards
On U.S. Southeast Coast Routes

3/15/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	29	2,889	12,889	13	4,956	8,979	13	5,122	9,156	13	5,276	9,068	14	5,379	9,068
Northern Europe to U.S. Southeast Coast (0202)	27	3,209	11,922	12	4,426	9,680	13	4,791	9,787	13	5,396	10,522	15	6,343	11,002
U.S. Southeast Coast to Southern Europe (0209)	20	1,029	6,747	7	1,795	3,596	8	1,852	4,177	12	1,789	5,742	16	1,887	7,031
Southern Europe to U.S. Southeast Coast (0702)	17	2,113	11,360	8	4,711	7,125	9	5,693	8,131	12	8,274	10,413	16	10,842	13,640
U.S. Southeast Coast to Japan (0210)	24	936	4,009	17	2,321	5,885	18	2,484	6,064	16	2,467	5,724	15	2,504	5,430
Japan to U.S. Southeast Coast (1002)	30	1,214	6,411	21	1,331	7,876	20	1,480	7,955	18	1,598	7,179	15	1,921	6,501
U.S. Southeast Coast to Australia/New Zealand (0211)	13	131	1,580	1	201	546	2	277	601	2	353	698	2	468	820
Australia/New Zealand to U.S. Southeast Coast (1102)	3	505	980	1	573	735	1	617	794	1	643	859	1	680	862
U.S. Southeast Coast to Far East WIC's (0212)	24	1,167	2,914	29	3,692	6,267	47	6,183	9,979	84	11,082	17,990	137	17,928	27,940
Far East WIC's to U.S. Southeast Coast (1202)	9	568	1,664	11	790	6,114	17	923	9,854	29	1,154	17,195	45	1,452	26,900
U.S. Southeast Coast to South America East Coast (0213)	127	4,044	25,794	88	5,582	25,118	95	7,619	26,829	119	11,052	31,857	159	16,071	39,044
South America East Coast to U.S. Southeast Coast (1302)	95	13,497	21,195	65	16,181	21,931	70	16,819	23,347	86	18,440	27,670	113	20,503	33,772
U.S. Southeast Coast to South America West Coast (0214)	15	561	2,973	28	563	9,902	29	689	10,413	32	991	11,361	34	1,557	11,861
South America West Coast to U.S. Southeast Coast (1402)	12	5,340	6,362	19	7,381	9,641	21	8,742	11,416	23	10,327	13,651	26	11,573	15,558
U.S. Southeast Coast to East Africa (0215)	2	2	693	5	3	7	0	5	7	0	5	7	0	4	6
East Africa to U.S. Southeast Coast (1502)	1	9	489	0	3	7	0	2	7	0	1	149	0	110	247
U.S. Southeast Coast to West Africa (0216)	2	80	425	1	181	244	1	183	247	1	149	225	1	110	247
West Africa to U.S. Southeast Coast (1602)	11	4,248	18,096	7	10,693	12,651	9	13,450	15,857	12	18,632	21,877	15	23,760	27,848
U.S. Southeast Coast to South Africa (0217)	2	74	175	2	136	798	2	197	896	2	264	934	2	270	1,023
South Africa to U.S. Southeast Coast (1702)	1	99	3,010	1	4,116	4,846	1	5,817	6,841	1	8,945	10,506	1	12,540	14,718
U.S. Southeast Coast to Arabian Gulf (0218)	10	336	4,157	17	754	5,176	21	980	6,518	28	1,494	8,740	37	2,219	11,588
Arabian Gulf to U.S. Southeast Coast (1802)	6	572	4,157	38	9,634	13,177	47	11,886	16,361	61	15,214	21,290	78	19,424	27,532
U.S. Southeast Coast to Other Med (0219)	11	558	3,499	4	724	2,364	4	1,140	2,213	5	1,580	3,685	6	2,023	4,687
Other Med to U.S. Southeast Coast (1902)	4	531	4,149	1	1,223	1,792	2	1,502	2,213	2	2,045	3,000	3	2,718	3,940
U.S. Southeast Coast to China (2102)	3	447	533	5	966	1,285	8	1,755	2,299	14	3,158	4,119	24	5,173	6,729
China to U.S. Southeast Coast (2102)	2	53	327	2	351	817	3	449	1,270	5	649	2,033	8	867	3,222
U.S. Southeast Coast to South East Asia (0222)	21	304	6,133	8	709	1,793	9	1,179	2,330	12	1,934	3,306	14	2,832	4,517
South East Asia to U.S. Southeast Coast (2202)	13	677	3,246	8	1,575	2,540	9	1,599	3,280	11	1,701	4,480	12	1,915	5,813
U.S. Southeast Coast to Indian Sub-Continent (0223)	5	123	1,195	5	424	1,235	6	537	1,538	8	794	1,967	9	1,112	2,425
Indian Sub-Continent to U.S. Southeast Coast (2302)	2	58	491	1	528	771	2	636	1,952	2	720	1,199	3	1,790	1,525
Total - U.S. Southeast Coast Routes	533	45,376	163,835	420	86,522	172,948	488	104,597	202,010	625	136,147	256,956	821	174,406	326,776

Total - US Routes 3,735 598,926 1,565,948 3,494 947,703 1,882,644 4,031 1,104,854 2,191,823 4,870 1,328,408 2,664,842 6,128 1,623,171 3,310,127

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype General Cargo - Greater than 10,000 DWT (AA)
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	2	129	427	1	177	231	1	192	251	1	210	274	1	224	293	1	224	293	1	224
Northern Europe to U.S. Southeast Coast (0802)	2	120	688	1	120	416	1	122	452	1	113	494	1	108	529	1	108	529	1	108
U.S. Southeast Coast to Southern Europe (0209)	4	93	991	1	183	173	1	144	201	1	151	248	1	148	306	1	148	306	1	148
Southern Europe to U.S. Southeast Coast (0902)	3	110	869	0	0	239	0	213	278	1	263	344	1	324	424	1	324	424	1	324
U.S. Southeast Coast to Japan (0210)	1	27	119	0	0	64	0	59	78	1	84	110	1	112	147	1	112	147	1	112
Japan to U.S. Southeast Coast (1002)	2	109	479	1	79	211	1	85	256	1	85	363	2	112	484	2	112	484	2	112
U.S. Southeast Coast to Australia/New Zealand (0211)	1	8	74	0	13	17	0	18	24	0	26	34	0	36	48	0	36	48	0	36
U.S. Southeast Coast to Australia/New Zealand to U.S. Southeast Coast (1102)	0	6	18	0	4	12	0	5	17	0	6	24	0	7	34	0	7	34	0	7
Australia/New Zealand to U.S. Southeast Coast (1102)	0	20	100	1	83	109	1	136	178	2	231	302	2	339	443	3	339	443	3	339
Far East NIC's to U.S. Southeast Coast (1202)	1	61	144	1	29	267	1	33	435	2	35	739	2	39	1,084	3	39	1,084	3	39
U.S. Southeast Coast to South America East Coast (0213)	15	920	3,012	10	1,268	2,551	10	1,860	2,542	15	2,919	3,815	15	4,181	5,465	22	4,181	5,465	22	4,181
South America East Coast to U.S. Southeast Coast (1302)	8	1,014	1,979	6	1,268	1,657	6	1,263	1,651	9	1,305	2,478	9	1,419	3,550	13	1,419	3,550	13	1,419
U.S. Southeast Coast to South America West Coast (0214)	5	174	963	3	161	778	3	193	835	3	254	719	3	344	584	2	344	584	2	344
South America West Coast to U.S. Southeast Coast (1402)	4	436	1,126	3	629	823	3	675	882	3	581	760	2	472	617	2	472	617	2	472
U.S. Southeast Coast to East Africa (0215)	0	2	59	0	4	6	0	5	6	0	4	6	0	4	5	0	4	5	0	4
East Africa to U.S. Southeast Coast (1502)	0	9	32	0	2	6	0	1	7	0	1	1	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	1	39	135	0	60	78	0	63	83	0	65	107	0	65	156	0	65	156	0	65
West Africa to U.S. Southeast Coast (1602)	1	54	106	0	42	74	0	57	78	0	77	101	0	112	147	0	112	147	0	112
U.S. Southeast Coast to South Africa (0217)	1	54	207	1	64	348	1	81	368	1	107	320	1	125	324	1	125	324	1	125
South Africa to U.S. Southeast Coast (1702)	0	26	26	0	31	40	0	31	40	0	27	35	0	27	35	0	27	35	0	27
U.S. Southeast Coast to Arabian Gulf (0218)	2	28	490	0	61	80	0	82	108	1	129	168	1	190	248	1	190	248	1	190
Arabian Gulf to U.S. Southeast Coast (1802)	0	2	82	0	2	34	0	3	46	0	4	72	0	5	106	0	5	106	0	5
U.S. Southeast Coast to Other Med (0219)	4	47	900	2	127	480	2	115	458	2	188	524	2	277	598	2	277	598	2	277
Other Med to U.S. Southeast Coast (1902)	1	35	220	0	372	486	0	685	895	7	1,242	1,624	7	1,552	2,682	12	1,552	2,682	12	1,552
U.S. Southeast Coast to China (0221)	1	141	141	2	47	178	1	65	328	2	94	595	2	131	983	3	131	983	3	131
U.S. Southeast Coast to South East Asia (0222)	0	24	35	1	33	43	0	25	79	1	34	128	1	45	181	1	45	181	1	45
U.S. Southeast Coast to South East Asia (2202)	1	27	89	0	21	75	0	25	139	1	175	228	1	329	430	1	329	430	1	329
U.S. Southeast Coast to Indian Sub-Continent (0223)	1	35	173	0	57	75	0	85	111	1	129	266	1	175	502	1	175	502	1	175
Indian Sub-Continent to U.S. Southeast Coast (2302)	1	8	94	0	5	88	0	6	129	1	6	266	1	7	502	1	7	502	1	7
Total - U.S. Southeast Coast Routes	63	3,749	13,864	35	5,186	9,826	40	6,481	11,110	56	8,652	15,291	77	11,533	20,955	77	11,533	20,955	77	11,533
Total - US Routes	337	23,476	71,839	209	28,449	56,451	263	35,612	71,071	379	47,876	102,581	525	63,438	141,863	525	63,438	141,863	525	63,438

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype General Cargo - (Less than 10,000 DWT (AG))
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southeast Coast to Northern Europe (0208)	2	32	153	1	36	82	1	39	84	1	44	81	1	54	80	1	54	80		
Northern Europe to U.S. Southeast Coast (0802)	1	87	122	1	52	77	0	53	79	1	51	76	1	51	76	1	51	76		
U.S. Southeast Coast to Southern Europe (0209)	1	9	88	0	8	19	0	9	23	0	10	33	0	10	44	0	10	44		
Southern Europe to U.S. Southeast Coast (0902)	0	14	46	0	15	22	0	18	27	0	26	39	0	35	52	0	35	52		
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to Australia/New Zealand (0211)	1	2	40	0	2	2	0	2	3	0	2	4	0	3	4	0	3	4		
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	16	0	0	1	0	0	1	0	0	1	0	0	2	0	0	2		
U.S. Southeast Coast to Far East NIC's (0212)	0	2	15	0	3	5	0	5	7	0	6	9	0	6	9	0	6	9		
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to South America East Coast (0213)	17	338	1,276	8	329	487	11	470	696	19	808	1,197	30	1,293	1,915	30	1,293	1,915		
South America East Coast to U.S. Southeast Coast (1302)	12	288	1,120	5	176	456	7	155	652	13	154	1,121	20	173	1,794	20	173	1,794		
U.S. Southeast Coast to South America West Coast (0214)	1	68	122	1	49	72	1	59	87	1	79	118	2	106	158	2	106	158		
South America West Coast to U.S. Southeast Coast (1402)	1	73	112	1	47	74	1	46	89	1	37	119	1	29	160	1	29	160		
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to West Africa (0216)	0	5	22	0	11	17	0	11	17	0	8	15	0	4	22	0	4	22		
West Africa to U.S. Southeast Coast (1602)	0	3	11	0	2	6	0	2	6	0	4	8	0	5	18	0	5	18		
U.S. Southeast Coast to South Africa (0217)	0	2	14	0	3	4	0	3	7	0	6	8	0	5	17	0	5	17		
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	1	0	1	1	0	0	1	0	0	1	0	0	1		
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to Other Med (0219)	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Southeast Coast (1902)	0	1	30	0	0	1	0	1	1	0	1	1	0	1	2	0	1	2		
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Southeast Coast (2102)	0	0	0	0	2	3	0	3	4	0	4	6	0	6	9	0	6	9		
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	1	1	0	1	2	0	1	2	0	2	3	0	2	3		
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	1	0	1	1	0	1	1	0	1	1	0	1	1		
Total - U.S. Southeast Coast Routes	38	923	3,206	17	737	1,332	22	880	1,786	36	1,243	2,838	56	1,784	4,346	56	1,784	4,346		
Total US Routes	184	3,657	15,320	75	3,169	6,058	89	3,734	7,111	129	5,029	10,024	185	6,790	14,132	185	6,790	14,132		

Total US routes

14,132

4/26/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Container - Greater than 10,000 DWT (AC)
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southeast Coast to Northern Europe (0208)	4	1,315	2,192	5	2,158	2,821	6	2,394	3,130	6	2,495	3,261	6	2,508	3,261	6	2,508	3,261		
Northern Europe to U.S. Southeast Coast (0802)	5	1,231	2,884	6	1,558	3,718	7	1,590	4,125	7	1,489	4,298	7	1,465	4,321	7	1,465	4,321		
U.S. Southeast Coast to Southern Europe (0209)	3	405	1,124	3	630	1,268	4	700	1,518	5	786	2,167	5	808	2,167	5	808	2,167		
Southern Europe to U.S. Southeast Coast (0902)	4	692	1,236	4	1,067	1,995	5	1,278	2,170	7	1,824	2,384	7	2,551	2,384	7	2,551	2,384		
U.S. Southeast Coast to Japan (0210)	4	678	1,588	4	1,466	1,916	4	1,620	2,118	5	1,767	2,310	5	1,890	2,310	5	1,890	2,310		
Japan to U.S. Southeast Coast (1002)	3	387	1,284	3	388	1,524	3	452	1,685	4	604	1,837	4	654	1,837	4	654	1,837		
U.S. Southeast Coast to Australia/New Zealand (0211)	2	74	532	1	121	354	2	172	385	2	238	474	2	284	474	2	284	474		
Australia/New Zealand to U.S. Southeast Coast (1102)	1	94	228	1	117	152	1	127	166	2	156	204	1	184	204	1	184	204		
U.S. Southeast Coast to Far East NIC's (0212)	5	905	1,840	9	2,858	3,736	15	4,858	6,348	27	9,030	11,804	45	15,042	11,804	45	15,042	11,804		
Far East NIC's to U.S. Southeast Coast (1202)	4	621	1,437	7	2,523	2,918	11	597	4,958	21	703	9,220	35	832	9,220	35	832	9,220		
U.S. Southeast Coast to South America East Coast (0213)	4	1,209	1,209	7	2,046	2,675	10	2,850	3,726	16	4,415	5,772	24	6,628	5,772	24	6,628	5,772		
South America East Coast to U.S. Southeast Coast (1302)	4	1,218	1,637	9	1,492	3,365	13	1,531	4,687	20	1,631	7,261	30	1,772	7,261	30	1,772	7,261		
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	27	35	0	32	42	0	42	55	0	57	55	0	57	55		
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	110	143	0	118	154	0	101	133	0	82	133	0	82	133		
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1		
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	10	13	0	11	14	0	11	15	0	11	15	0	11	15		
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	9	11	0	11	15	0	15	19	0	21	19	0	21	27		
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	11	15	0	14	18	0	19	24	0	22	24	0	22	29		
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	5	6	0	5	6	0	4	5	0	3	5	0	3	4		
U.S. Southeast Coast to Arabian Gulf (0218)	2	164	512	2	297	388	2	407	532	4	681	891	5	1,035	891	5	1,035	1,353		
Arabian Gulf to U.S. Southeast Coast (1802)	1	16	215	1	26	222	1	35	304	2	47	509	3	69	509	3	69	774		
U.S. Southeast Coast to Other Med (0219)	2	136	720	3	234	1,484	4	433	1,951	6	737	2,951	9	1,135	2,951	9	1,135	4,498		
Other Med to U.S. Southeast Coast (1902)	0	70	70	1	110	144	1	144	189	1	219	266	2	333	266	2	333	433		
U.S. Southeast Coast to China (0221)	0	0	0	0	269	352	0	497	650	0	781	1,021	0	1,120	1,021	0	1,120	1,465		
China to U.S. Southeast Coast (2102)	0	0	0	0	21	27	0	29	37	0	41	53	0	57	53	0	57	75		
U.S. Southeast Coast to South East Asia (0222)	2	206	768	1	453	592	2	671	878	4	1,169	1,528	6	1,929	1,528	6	1,929	2,522		
South East Asia to U.S. Southeast Coast (2202)	2	461	860	2	436	681	3	483	1,010	4	562	1,758	7	625	1,758	7	625	2,901		
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	3	4	0	3	4	0	3	4	0	4	4	0	4	5		
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	11	14	0	11	15	0	11	14	0	10	14	0	10	14		
Total - U.S. Southeast Coast Routes	51	881	20,448	68	16,444	29,972	92	21,074	40,337	141	29,582	60,260	209	41,357	60,260	209	41,357	88,058		
Total - US Routes	270	59,769	113,874	361	94,266	161,096	459	118,600	206,262	668	166,153	300,329	907	234,546	300,329	907	234,546	403,474		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Less than 10,000 DWT (AD)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	9	0	18	34	0	20	35	0	22	37	0	27	39
Northern Europe to U.S. Southeast Coast (0802)	0	6	10	0	36	46	0	37	49	0	38	50	1	41	54
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	4	5	0	5	6	0	5	7	0	5	7
Southern Europe to U.S. Southeast Coast (0902)	0	5	15	0	14	18	0	17	22	0	24	31	0	32	42
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	26	0	1	1	0	1	1	0	1	2	0	1	2
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	2	2	0	2	3	0	3	4	0	3	4
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	3	114	190	8	340	705	9	483	794	13	820	1,072	21	1,333	1,743
South America East Coast to U.S. Southeast Coast (1302)	2	142	227	5	426	556	6	480	628	8	536	848	12	605	1,379
U.S. Southeast Coast to South America West Coast (0214)	1	29	109	1	59	77	1	73	96	1	103	134	2	140	183
South America West Coast to U.S. Southeast Coast (1402)	1	50	74	0	70	92	1	71	114	1	64	159	1	58	217
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	6	7	0	6	7	0	4	5	0	2	2
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	1	1	0	1	2	0	2	2	0	2	3
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	1	2	0	2	3	0	3	4	0	2	3
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	1	2	0	2	2	0	2	3	0	3	4
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	1	1	0	1	2	0	2	3	0	3	4
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	1	0	0	1	0	1	1	0	1	1
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total - U.S. Southeast Coast Routes	7	344	669	15	980	1,550	17	1,203	1,765	23	1,631	2,363	37	2,261	3,689

Total - US Routes

15,225

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Koko - Greater than 10,000 DWT (AE)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	4	306	1,892	1	527	744	1	553	769	1	589	819	1	612	850
Northern Europe to U.S. Southeast Coast (0902)	5	512	2,048	1	595	826	1	611	854	1	575	909	1	555	944
U.S. Southeast Coast to Southern Europe (0209)	1	73	378	0	116	162	0	129	179	0	139	254	0	137	347
Southern Europe to U.S. Southeast Coast (0902)	0	39	213	0	72	112	0	87	124	0	127	177	0	174	242
U.S. Southeast Coast to Japan (0210)	1	20	315	0	20	27	0	19	27	0	12	17	0	8	11
Japan to U.S. Southeast Coast (1002)	2	20	906	0	13	48	0	17	48	0	13	30	0	9	19
U.S. Southeast Coast to Australia/New Zealand (0211)	1	13	426	0	24	42	0	35	50	0	50	76	0	71	99
Australia/New Zealand to U.S. Southeast Coast (1102)	0	5	120	0	7	10	0	8	12	0	13	18	0	17	23
U.S. Southeast Coast to Far East NIC's (0212)	1	10	363	0	25	35	0	34	48	0	51	70	0	68	95
Far East NIC's to U.S. Southeast Coast (1202)	0	35	153	0	28	46	0	30	62	0	36	91	0	43	123
U.S. Southeast Coast to South America East Coast (0213)	4	263	992	3	463	643	4	649	901	7	1,110	1,542	12	1,801	2,502
South America East Coast to U.S. Southeast Coast (1302)	3	215	763	2	410	571	3	399	801	4	384	1,570	7	372	2,224
U.S. Southeast Coast to South America West Coast (0214)	1	29	153	1	38	214	1	50	200	0	75	164	0	107	148
South America West Coast to U.S. Southeast Coast (1402)	1	156	184	0	154	213	0	143	199	0	117	163	0	103	147
U.S. Southeast Coast to East Africa (0215)	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	174	0	76	106	0	75	105	0	51	71	0	24	47
U.S. Southeast Coast to West Africa (0216)	1	20	60	1	8	77	0	11	77	0	16	52	0	25	34
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	3	4	0	2	3	0	2	3	0	2	2
South Africa to U.S. Southeast Coast (1702)	1	11	477	0	32	45	0	44	61	0	71	99	0	105	146
U.S. Southeast Coast to Arabian Gulf (0218)	1	5	290	0	6	44	0	8	59	0	12	97	0	17	142
Arabian Gulf to U.S. Southeast Coast (1802)	1	33	537	0	62	83	0	132	184	1	190	264	1	220	306
U.S. Southeast Coast to Other Med (0219)	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Other Med to U.S. Southeast Coast (1902)	0	0	28	0	78	108	0	181	251	0	276	384	0	371	515
U.S. Southeast Coast to China (0221)	0	0	0	0	12	17	0	16	22	0	23	32	0	32	45
China to U.S. Southeast Coast (2102)	0	0	0	0	0	6	0	0	7	0	0	10	0	0	13
U.S. Southeast Coast to South East Asia (0222)	2	0	594	0	1	2	0	1	2	0	2	3	0	3	4
South East Asia to U.S. Southeast Coast (2202)	1	1	162	0	1	35	0	44	61	0	94	130	1	185	257
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	13	43	0	26	7	0	7	9	0	8	12	0	10	14
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	5	7	0	7	9	0	8	12	0	10	14
Total - U.S. Southeast Coast Routes	32	1,811	11,284	10	2,784	4,231	12	3,287	5,113	17	4,038	6,857	25	5,070	9,301
Total - US Routes	100	9,293	38,142	60	15,888	33,720	70	19,444	40,712	92	26,383	55,502	124	35,388	75,361

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Roro - Less than 10,000 DWT (AF)
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	1	22	86	0	31	45	0	0	33	46	0	35	0	48	0	0	34	47	0	34
Northern Europe to U.S. Southeast Coast (0802)	0	8	32	0	8	12	0	0	8	12	0	8	0	12	0	0	7	12	0	7
U.S. Southeast Coast to Southern Europe (0209)	1	16	117	0	20	28	0	0	22	31	0	24	0	33	0	0	23	41	0	23
Southern Europe to U.S. Southeast Coast (0902)	0	4	51	0	7	15	0	0	8	17	0	12	0	18	0	0	16	22	0	16
U.S. Southeast Coast to Japan (0210)	0	10	24	0	11	15	0	0	12	16	0	12	0	17	0	0	13	18	0	13
Japan to U.S. Southeast Coast (1002)	0	5	16	0	3	11	0	0	3	12	0	2	0	12	0	0	1	13	0	1
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	40	204	3,193	14	266	1,096	14	413	413	1,119	15	696	15	818	1,206	19	1,096	1,508	19	1,096
South America East Coast to U.S. Southeast Coast (1302)	40	618	3,280	13	713	1,032	14	759	759	1,054	15	818	15	818	1,136	19	866	1,421	19	866
U.S. Southeast Coast to South America West Coast (0214)	2	31	259	1	28	181	1	32	32	153	1	57	1	57	109	1	45	87	1	45
South America West Coast to U.S. Southeast Coast (1402)	2	202	219	1	136	189	1	115	115	160	1	82	1	82	113	1	65	91	1	65
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	3	0	0	1	0	1	1	1	0	1	0	1	1	0	1	2	0	1
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	5	0	0	0	0	1	1	1	0	1	0	0	1	0	1	2	0	1
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	1	2	0	2	2	2	0	2	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	3	0	0	4	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	87	1,122	7,330	31	1,276	2,629	31	1,409	2,625	32	1,729	2,712	40	2,163	3,268					
Total - US Routes	127	2,502	11,441	68	3,507	6,849	76	4,139	7,616	90	5,433	8,950	108	6,936	10,690					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Reefer (BA)
On U.S. Southeast Coast Routes

ROUTE	1987				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	1	17	50	1	31	34	1	1	1	31	57	1	26	48		
Northern Europe to U.S. Southeast Coast (0802)	1	25	124	1	30	25	1	1	1	14	206	1	6	174		
U.S. Southeast Coast to Southern Europe (0209)	1	0	129	0	0	0	0	0	0	0	0	0	0	40		
Southern Europe to U.S. Southeast Coast (0902)	1	7	151	0	12	13	0	0	0	16	31	0	22	41		
U.S. Southeast Coast to Japan (0210)	0	31	32	1	79	96	1	1	2	112	207	2	113	210		
Japan to U.S. Southeast Coast (1002)	0	5	24	1	5	4	1	1	1	2	81	1	1	85		
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	46	0	8	7	0	0	0	4	8	0	2	4		
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to South America East Coast (0213)	7	104	833	8	165	167	8	8	7	215	813	6	254	677		
South America East Coast to U.S. Southeast Coast (1302)	5	311	739	5	492	454	5	5	4	403	746	4	356	622		
U.S. Southeast Coast to South America West Coast (0214)	3	2	614	6	2	2	6	6	7	1	1,562	8	0	1,742		
South America West Coast to U.S. Southeast Coast (1402)	1	220	238	2	449	473	2	2	3	568	1,052	3	633	1,173		
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to West Africa (0216)	0	0	15	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	8	7	0	0	0	4	7	0	2	3		
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Southeast Coast (1702)	0	2	11	0	2	1	0	0	1	1	1	0	0	0		
U.S. Southeast Coast to Arabian Gulf (0218)	0	5	10	0	15	29	1	1	49	90	90	2	74	138		
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	13	0	0	0	1	0	0	0	117	2	0	179		
U.S. Southeast Coast to Other Med (0219)	0	7	26	0	16	18	0	0	28	52	52	1	39	73		
Other Med to U.S. Southeast Coast (1902)	0	1	53	0	0	0	0	0	0	0	108	1	0	151		
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to South East Asia (0222)	1	3	29	3	10	14	3	3	20	153	153	2	30	152		
South East Asia to U.S. Southeast Coast (2202)	0	12	12	1	37	34	1	1	34	63	63	1	34	63		
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Southeast Coast Routes	23	759	3,148	31	1,363	1,379	31	1,501	33	1,501	5,381	34	1,573	5,570		
Total - US Routes	108	4,151	16,305	172	7,726	8,281	179	9,431	205	9,431	38,343	228	10,349	42,874		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Bulk Carriers - Less than 20,000 DWT (DA)
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southeast Coast to Northern Europe (0208)	2	179	516	1	236	308	1	266	321	1	193	252	1	193	252	1	143	206		
Northern Europe to U.S. Southeast Coast (0802)	1	86	299	1	115	216	1	125	226	1	120	176	0	110	144	0	110	144		
U.S. Southeast Coast to Southern Europe (0209)	1	28	163	1	54	179	1	46	226	1	39	386	2	34	631	2	34	631		
Southern Europe to U.S. Southeast Coast (0902)	0	58	90	0	68	89	1	86	113	1	147	192	1	147	192	2	241	315		
U.S. Southeast Coast to Japan (0210)	0	18	55	1	76	100	1	68	89	0	49	64	0	31	41	0	31	41		
Japan to U.S. Southeast Coast (1002)	0	7	52	1	3	97	0	4	87	0	4	64	0	6	40	0	6	40		
U.S. Southeast Coast to Australia/New Zealand (0211)	0	1	18	0	3	4	0	3	4	0	2	3	0	2	2	0	2	2		
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to Far East NIC's (0212)	0	9	19	0	20	26	0	27	36	0	28	37	0	22	29	0	22	29		
Far East NIC's to U.S. Southeast Coast (1202)	0	15	0	0	0	23	0	0	32	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to South America East Coast (0213)	2	46	399	3	56	420	2	79	328	1	119	191	1	119	191	1	152	198		
South America East Coast to U.S. Southeast Coast (1302)	1	250	257	2	207	271	1	162	211	1	94	123	1	94	123	1	50	128		
U.S. Southeast Coast to South America West Coast (0214)	0	9	23	0	6	45	0	6	52	0	36	46	0	29	38	0	29	38		
South America West Coast to U.S. Southeast Coast (1402)	0	17	19	0	35	45	0	40	52	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to West Africa (0216)	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Southeast Coast (1602)	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Southeast Coast (1702)	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to Arabian Gulf (0218)	0	5	18	0	23	31	0	32	41	0	39	51	0	47	62	0	47	62		
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	17	0	5	6	0	4	5	0	1	2	0	0	1	0	0	1		
U.S. Southeast Coast to Other Med (0219)	0	31	46	0	12	15	0	8	10	0	5	12	0	3	22	0	3	22		
Other Med to U.S. Southeast Coast (1902)	0	3	29	0	2	11	0	4	8	0	7	9	0	12	16	0	12	16		
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to South East Asia (0222)	0	8	19	0	34	44	1	73	96	1	112	146	1	128	168	1	128	168		
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	9	12	0	10	13	0	9	12	0	7	9	0	7	9		
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	6	18	0	3	4	0	5	7	0	8	11	0	11	15	0	11	15		
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Southeast Coast Routes	11	765	2,115	10	967	1,956	10	1,028	1,967	9	1,020	1,859	10	1,034	2,127	10	1,034	2,127		
Total - US Routes	82	5,982	15,249	84	8,342	16,982	90	8,915	18,008	99	9,603	19,071	117	10,934	21,991	117	10,934	21,991		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Bulk Carriers - 20,000 to 40,000 DWT (08)
On U.S. Southeast Coast Routes
1995

ROUTE	On U.S. Southeast Coast Routes 1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Southeast Coast to Northern Europe (0208)	2	242	1,259	1	411	526	1	450	574	1	415	530	1	382	487	
Northern Europe to U.S. Southeast Coast (0802)	3	343	1,626	1	229	695	1	232	760	1	181	702	1	128	645	
U.S. Southeast Coast to Southern Europe (0209)	2	258	626	2	319	636	3	282	779	3	157	1,185	4	84	1,533	
Southern Europe to U.S. Southeast Coast (0902)	1	293	686	1	668	853	3	819	1,044	3	1,246	1,591	3	1,611	2,058	
U.S. Southeast Coast to Japan (0210)	4	244	796	2	279	357	2	255	326	1	141	180	0	70	89	
Japan to U.S. Southeast Coast (1002)	6	196	1,695	3	141	860	2	155	785	1	127	434	1	110	215	
U.S. Southeast Coast to Australia/New Zealand (0211)	0	2	59	0	5	28	0	6	30	0	8	29	0	11	28	
U.S. Southeast Coast to U.S. Southeast Coast (1102)	1	179	274	0	156	200	0	168	214	0	166	212	0	147	187	
Australia/New Zealand to U.S. Southeast Coast (1102)	2	37	505	0	112	144	1	179	229	1	255	326	1	310	396	
U.S. Southeast Coast to Far East NIC's (0212)	2	57	411	0	22	186	0	23	297	1	21	423	1	20	514	
Far East NIC's to U.S. Southeast Coast (1202)	3	169	1,390	3	234	1,484	2	268	1,189	1	315	758	1	357	485	
U.S. Southeast Coast to South America East Coast (0213)	3	1,371	1,432	3	1,198	1,530	2	959	1,225	2	612	781	1	391	500	
South America East Coast to U.S. Southeast Coast (1302)	0	72	125	1	98	1,571	1	116	571	1	178	488	1	213	304	
U.S. Southeast Coast to South America West Coast (0214)	0	186	214	1	431	550	1	495	632	1	423	540	1	333	425	
South America West Coast to U.S. Southeast Coast (1402)	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to West Africa (0216)	0	46	68	0	71	91	0	82	105	0	119	152	1	173	221	
West Africa to U.S. Southeast Coast (1602)	0	14	131	1	44	390	1	76	470	1	102	533	1	86	609	
U.S. Southeast Coast to South Africa (0217)	0	30	59	0	90	115	0	108	138	0	123	157	1	140	179	
South Africa to U.S. Southeast Coast (1702)	0	37	217	0	36	50	0	32	78	0	11	122	1	3	194	
U.S. Southeast Coast to Arabian Gulf (0218)	1	30	64	0	21	27	0	32	41	0	51	66	0	81	103	
Arabian Gulf to U.S. Southeast Coast (1802)	1	211	344	1	175	223	1	220	281	1	200	256	1	134	172	
U.S. Southeast Coast to Other Med (0219)	0	5	109	0	9	56	0	9	71	0	11	64	0	13	43	
Other Med to U.S. Southeast Coast (1902)	1	97	106	1	138	176	1	236	302	3	436	557	5	729	932	
U.S. Southeast Coast to China (0221)	0	0	89	1	0	242	1	0	415	2	0	765	3	0	1,280	
China to U.S. Southeast Coast (2102)	2	15	373	0	68	87	1	154	197	1	231	295	1	251	320	
U.S. Southeast Coast to South East Asia (0222)	4	6	925	1	6	345	2	6	783	3	6	1,171	3	4	1,271	
South East Asia to U.S. Southeast Coast (2202)	1	50	154	1	232	297	2	277	353	2	321	410	2	303	388	
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total - U.S. Southeast Coast Routes	42	4,102	13,840	25	5,194	10,645	29	5,639	11,889	31	5,855	12,728	34	6,093	13,656	
Total - US Routes	646	87,212	206,137	558	111,051	203,615	628	122,762	232,001	673	128,477	253,047	752	137,203	287,952	

Total - US Routes

646	87,212	206,137	558	111,051	203,615	628	122,762	232,001	673	128,477	253,047	752	137,203	287,952
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3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 40,000 to 80,000 DWT (DC)
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	2	104	1,333	1	268	1,256	1	299	1,299	1	318	1,031	1	347	1,031	1	347	1,031	1	347
Northern Europe to U.S. Southeast Coast (0802)	0	136	1,396	0	226	2,279	0	234	2,299	0	186	229	0	124	229	0	124	229	0	124
U.S. Southeast Coast to Southern Europe (0209)	0	48	1,081	0	239	2,766	0	257	3,181	0	259	344	0	254	344	0	254	344	0	254
Southern Europe to U.S. Southeast Coast (0902)	1	572	1,083	3	1,398	2,766	4	1,713	2,976	4	2,612	3,225	5	3,372	3,225	5	3,372	3,225	5	3,372
U.S. Southeast Coast to Japan (0210)	2	182	575	1	185	288	1	178	220	1	96	168	0	47	168	0	47	168	0	47
Japan to U.S. Southeast Coast (1002)	1	185	511	0	161	280	0	185	270	0	167	206	0	162	206	0	162	206	0	162
U.S. Southeast Coast to Australia/New Zealand (0211)	1	31	376	0	27	217	0	31	233	0	18	230	0	9	230	0	9	230	0	9
Australia/New Zealand to U.S. Southeast Coast (1102)	1	214	214	0	262	299	0	260	321	0	257	317	0	227	317	0	227	317	0	227
U.S. Southeast Coast to Far East NIC's (0212)	1	77	215	1	193	238	1	309	392	2	425	525	1	406	525	1	406	525	1	406
Far East NIC's to U.S. Southeast Coast (1202)	1	78	301	1	40	566	1	43	906	2	42	1,244	2	41	1,244	2	41	1,244	2	41
U.S. Southeast Coast to South America East Coast (0213)	1	152	581	1	189	872	1	198	721	1	222	501	1	254	501	1	254	501	1	254
South America East Coast to U.S. Southeast Coast (1302)	0	313	313	1	516	637	1	427	527	1	297	366	0	37	366	0	37	366	0	37
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	17	155	0	20	25	0	31	39	0	66	39	0	66	39	0	66
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	125	155	0	136	168	0	93	119	0	82	119	0	82	119	0	82
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	14	61	0	5	6	0	5	6	0	2	2	0	0	2	0	0	2	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	13	15	0	14	18	0	21	26	0	31	26	0	31	26	0	31
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	8	10	0	13	17	0	18	22	0	15	22	0	15	22	0	15
South Africa to U.S. Southeast Coast (1702)	0	41	41	0	85	105	0	96	119	0	103	127	0	111	127	0	111	127	0	111
U.S. Southeast Coast to Arabian Gulf (0218)	0	61	87	0	63	78	0	57	104	0	19	163	0	5	163	0	5	163	0	5
Arabian Gulf to U.S. Southeast Coast (1802)	0	44	49	0	36	52	0	56	69	0	88	109	0	140	109	0	140	109	0	140
U.S. Southeast Coast to Other Med (0219)	0	55	72	0	83	102	0	108	134	0	100	126	0	68	126	0	68	126	0	68
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	95	118	0	90	111	0	102	126	0	115	126	0	115	126	0	115
U.S. Southeast Coast to China (0221)	1	171	181	1	253	313	2	437	540	3	816	1,007	6	1,381	1,007	6	1,381	1,007	6	1,381
China to U.S. Southeast Coast (2102)	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	2	34	498	0	57	70	1	130	161	1	189	234	1	193	234	1	193	234	1	193
South East Asia to U.S. Southeast Coast (2202)	1	3	261	0	10	38	0	10	87	0	15	126	0	22	126	0	22	126	0	22
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	41	51	0	49	60	0	56	70	0	53	70	0	53	70	0	53
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	1	42	0	2	2	0	1	2	0	1	1	0	1	1	0	1	1	0	1
Total - U.S. Southeast Coast Routes	15	2,560	7,422	12	4,579	9,069	15	5,359	10,081	17	6,559	10,684	20	7,694	11,729	20	7,694	11,729	20	7,694

Total - US Routes

391 84,816 193,869 328 107,537 204,354 369 119,897 230,207 354 119,065 228,221 351 117,619 232,577

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 80,000 to 100,000 DWT (00)
On U.S. Southeast Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - US Routes	6	3,792	5,948	16	20,555	29,809	18	22,677	32,912	17	22,361	32,556	17	21,827	32,219					

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 100,000 to 175,000 DWT (DE)
On U.S. Southeast Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (1208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0207)	0	0	0	0	11	13	0	0	12	0	14	16	0	14	17
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	136	0	159	0	166	0	0	260	304	0	339	396
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	7	8	0	0	6	0	0	5	6	0	4	5
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	43	25,011	55,271	38	31,318	56,274	44	35,695	65,663	43	34,324	68,298	42	32,948	70,850

Total - US Routes

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - Greater than 175,000 DWT (OF)
On U.S. Southeast Coast Routes

3/16/99

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	2	25	0	26	31	0	41	48	0	54	63
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East MIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East MIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	0	0	0	0	48	56	0	51	60	0	63	74	0	72	85

Total - US Routes

2 669 3,119 3 7,332 11,062 3 8,043 12,477 3 7,363 12,435 3 6,818 12,472

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Combination Carriers - Less than 20,000 DWT (EA)
On U.S. Southeast Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	1	177	300	1	146	269	1	127	250	1	90	196	1	60	140

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 20,000 to 40,000 DWT (EB)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - US Routes	1	32	456	0	61	192	0	57	181	0	43	141	0	30	102

3/16/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Combination Carriers - 40,000 to 80,000 DWT (EC)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	52	205	0	44	54	0	32	39	0	12	15	0	4	5
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	22	27	0	25	30	0	27	34	0	28	35
Southern Europe to U.S. Southeast Coast (0902)	0	30	30	0	214	265	0	262	324	0	410	505	1	535	660
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	50	97	0	2	41	0	2	40	0	2	37	0	2	31
South America East Coast to U.S. Southeast Coast (1302)	0	83	97	0	46	57	0	45	56	0	42	52	0	35	43
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	78	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	9	11	0	11	14	0	11	13	0	7	9
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	1	214	506	0	337	454	0	378	504	1	504	657	1	612	784
Total - US Routes	33	16,526	29,815	28	16,180	32,061	29	16,256	32,997	27	14,850	31,485	24	13,432	28,883

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Combination Carriers - 80,000 to 100,000 DWT (ED)
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	45	86	0	0	132	0	0	95	0	0	108	0	66	118	0	40	154	0	154
Southern Europe to U.S. Southeast Coast (0902)	0	32	172	0	0	284	0	0	159	0	0	233	0	218	255	0	284	332	0	332
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	10	0	0	8	0	0	9	0	7	9	0	6	0	0	7
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	0	77	258	0	262	458	0	27	390	0	332	430	0	332	430	0	386	559	0	559
Total - US Routes	7	5,089	8,445	11	8,560	15,898	11	9,199	16,824	11	9,121	16,753	11	9,121	16,753	11	8,688	16,358	11	16,358

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Combination Carriers - 100,000 to 175,000 DWT (EE)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	19	18	0	16	13	0	11	13	0	6	7
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	127	183	0	156	244	0	244	285	0	318	372
U.S. Southeast Coast to Japan (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (10/22)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	4	5	0	4	7	0	6	7	0	8	9
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	2	3	0	3	5	0	4	5	0	5	6
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	0	0	0	0	152	209	0	179	309	0	264	309	0	337	394
Total - US Routes	25	16,463	36,876	20	23,204	46,253	22	25,757	52,149	24	27,170	52,149	26	28,748	57,805

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Combination Carriers - Greater than 175,000 DWT (EF)
On U.S. Southeast Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - US Routes	0	203	585	1	4,624	5,410	1	5,261	6,155	1	5,895	6,897	2	6,593	7,713

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipyard Tankers - Less than 10,000 DWT (FA)
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	17	0	0	18	0	0	0	0	0	20	0	0	23	0	0	24	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	34	61	0	37	48	0	40	53	0	45	59	0	48	63	0	48	63	0	48
U.S. Southeast Coast to Southern Europe (0209)	0	0	10	0	0	3	0	0	4	0	0	4	0	0	2	0	0	2	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	13	55	0	8	10	0	9	12	0	7	9	0	6	7	0	6	7	0	6
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	3	13	0	3	4	0	4	5	0	6	7	0	9	12	0	9	12	0	9
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	13	26	1	14	36	1	19	41	0	27	50	1	41	61	0	41	61	0	41
South America East Coast to U.S. Southeast Coast (1302)	1	156	161	2	159	208	2	177	232	3	219	287	3	265	347	3	265	347	3	265
U.S. Southeast Coast to South America West Coast (0214)	0	3	9	0	8	11	0	12	15	0	24	32	0	43	57	0	43	57	0	43
South America West Coast to U.S. Southeast Coast (1402)	1	79	83	1	81	106	1	100	148	2	123	306	4	141	547	4	141	547	4	141
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	3	4	0	10	13	0	10	13	0	7	9	0	3	4	0	3	4	0	3
West Africa to U.S. Southeast Coast (1602)	0	0	8	0	0	28	0	0	28	0	0	19	0	0	9	0	0	9	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	1	9	96	0	15	20	0	20	26	0	27	35	0	35	46	0	35	46	0	35
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	17	22	0	13	16	0	7	9	0	4	5	0	4	5	0	4
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	115	150	0	140	183	0	162	212	0	178	233	0	178	233	0	178
Total - U.S. Southeast Coast Routes	5	313	560	4	465	679	5	544	796	7	655	1,060	9	774	1,416	9	774	1,416	9	774
Total - US Routes	54	4,432	6,566	95	5,659	9,172	115	6,360	11,192	163	7,674	16,272	233	9,406	23,421	233	9,406	23,421	233	9,406

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Tankers - 10,000 to 40,000 DWT (PB)
On U.S. Southeast Coast Routes

ROUTE	1987					1995					2000					2010					2020				
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS				
U.S. Southeast Coast to Northern Europe (0208)	2	378	810	1	536	700	1	467	611	2	511	955	3	558	1,442										
Northern Europe to U.S. Southeast Coast (0802)	3	415	1,070	2	785	1,561	2	984	1,361	3	1,628	2,128	4	2,460	3,215										
U.S. Southeast Coast to Southern Europe (0209)	1	19	274	0	20	26	0	18	29	0	8	23	0	3	18										
Southern Europe to U.S. Southeast Coast (0902)	3	191	1,415	0	119	163	0	137	179	0	109	143	0	85	112										
U.S. Southeast Coast to Japan (0210)	0	47	110	0	104	135	0	119	156	0	139	181	0	164	215										
Japan to U.S. Southeast Coast (1002)	0	14	99	0	14	121	0	19	140	0	28	163	1	47	193										
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
U.S. Southeast Coast to Far East NIC's (0212)	1	98	116	2	274	359	2	434	567	4	713	952	7	1,189	1,554										
Far East NIC's to U.S. Southeast Coast (1202)	0	16	131	1	29	407	2	35	643	4	55	1,057	6	85	1,764										
U.S. Southeast Coast to South America East Coast (0213)	8	630	4,048	11	498	6,533	12	652	7,184	15	490	8,705	18	494	10,338										
South America East Coast to U.S. Southeast Coast (1302)	9	5,584	5,618	12	5,332	6,970	14	5,863	7,664	16	7,104	9,287	19	8,438	11,030										
U.S. Southeast Coast to South America West Coast (0214)	0	95	191	0	25	247	1	40	326	1	83	475	1	151	612										
South America West Coast to U.S. Southeast Coast (1402)	1	491	523	1	505	660	2	666	871	2	969	1,267	3	1,269	1,632										
U.S. Southeast Coast to East Africa (0215)	0	0	68	0	0	0	0	0	0	0	0	0	0	0	0										
East Africa to U.S. Southeast Coast (1502)	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0										
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
West Africa to U.S. Southeast Coast (1602)	0	8	36	0	27	36	0	24	31	0	16	21	0	11	14										
U.S. Southeast Coast to South Africa (0217)	0	1	28	0	4	10	0	5	7	0	9	12	0	13	17										
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	8	10	0	9	12	0	12	16	0	16	21										
U.S. Southeast Coast to Arabian Gulf (0218)	1	5	194	15	121	4,346	18	145	5,353	23	259	6,840	29	375	8,712										
Arabian Gulf to U.S. Southeast Coast (1802)	2	473	473	36	8,114	10,607	44	9,995	13,065	57	12,771	16,694	72	16,285	21,261										
U.S. Southeast Coast to Other Med (0219)	1	29	216	0	32	41	0	39	51	0	51	66	0	60	79										
Other Med to U.S. Southeast Coast (1902)	0	51	51	0	90	118	0	117	153	0	159	208	0	210	274										
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
China to U.S. Southeast Coast (2102)	0	0	0	0	2	2	0	2	3	0	2	3	0	2	3										
U.S. Southeast Coast to South East Asia (0222)	1	23	110	3	26	593	3	28	557	3	41	579	3	64	652										
South East Asia to U.S. Southeast Coast (2202)	1	169	169	5	689	900	4	647	845	4	672	879	5	757	990										
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	80	2	0	594	3	0	726	3	0	838	4	0	921										
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	25	25	1	172	224	1	210	274	1	242	317	1	266	348										
Total - U.S. Southeast Coast Routes	34	8,741	15,857	94	17,526	35,362	110	20,657	40,811	139	26,053	51,788	177	32,964	65,418										
Total - US Routes	295	57,310	113,686	449	88,983	168,596	491	99,642	184,180	548	115,683	214,393	684	147,117	270,379										

Total - US Routes

295 57,310 113,686 449 88,983 168,596 491 99,642 184,180 214,393 684 147,117 270,379

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Tankers - 40,000 to 80,000 DWT (FC)
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	26	62	0	223	285	0	135	173	0	165	251	0	205	378	0	205	378	0	205
Northern Europe to U.S. Southeast Coast (0802)	0	63	129	0	192	567	0	299	343	0	391	499	1	588	751	1	588	751	1	588
U.S. Southeast Coast to Southern Europe (0209)	0	0	61	0	4	5	0	3	4	0	1	2	0	0	1	0	0	1	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	33	42	0	38	48	0	30	38	0	23	30	0	23	30	0	23
U.S. Southeast Coast to Japan (0210)	0	0	0	0	18	23	0	21	27	0	25	31	0	29	37	0	29	37	0	29
Japan to U.S. Southeast Coast (1002)	0	0	0	0	2	3	0	3	4	0	5	6	0	8	10	0	8	10	0	8
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	48	62	0	77	98	0	126	161	0	210	268	0	210	268	0	210
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	5	6	0	6	8	0	10	12	0	15	19	0	15	19	0	15
U.S. Southeast Coast to South America East Coast (0213)	2	155	1,929	3	199	3,002	3	260	3,196	3	154	3,622	4	109	4,019	4	109	4,019	4	109
South America East Coast to U.S. Southeast Coast (1302)	1	1,221	1,221	2	1,841	2,351	2	1,959	2,502	2	2,220	2,836	3	2,464	3,147	3	2,464	3,147	3	2,464
U.S. Southeast Coast to South America West Coast (0214)	0	25	61	0	4	6	0	7	9	0	14	18	0	25	32	0	25	32	0	25
South America West Coast to U.S. Southeast Coast (1402)	0	1,546	1,546	0	1,691	2,160	0	2,058	2,629	0	2,430	3,103	0	2,681	3,424	0	2,681	3,424	0	2,681
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	5	6	0	4	5	0	3	4	0	2	2	0	2	2	0	2
West Africa to U.S. Southeast Coast (1602)	0	0	418	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	1	1	0	1	1	0	2	2	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	22	28	0	31	39	0	47	60	0	66	85	0	66	85	0	66
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	61	0	21	27	0	26	33	0	42	54	0	66	85	0	66	85	0	66
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	672	0	1,432	1,829	0	1,764	2,253	0	2,254	2,878	1	2,870	3,666	1	2,870	3,666	1	2,870
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	6	7	0	7	9	0	9	11	0	11	14	0	11	14	0	11
Other Med to U.S. Southeast Coast (1902)	0	97	596	0	183	234	0	257	303	0	323	412	0	423	540	0	423	540	0	423
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	5	6	0	5	6	0	7	9	0	11	15	0	11	15	0	11
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	157	200	0	147	188	0	153	195	0	172	220	0	172	220	0	172
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	27	34	0	33	42	0	38	48	0	41	53	0	41	53	0	41
Total - U.S. Southeast Coast Routes	3	3,133	6,755	6	6,120	10,885	6	7,061	11,920	7	8,448	14,254	8	10,023	16,799	8	10,023	16,799	8	10,023
Total - US Routes	86	29,704	65,984	103	44,737	78,561	121	52,707	90,542	134	61,848	104,145	166	75,131	129,619	166	75,131	129,619	166	75,131

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 80,000 to 100,000 DWT (FD)
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	23	28	0	0	9	12	0	13	0	0	16	0	19	23		
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	10	12	0	12	0	15	0	19	0	0	23	0	27	34		
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Southeast Coast (0902)	33	33	871	0	23	28	0	26	26	32	0	21	0	0	25	0	16	20		
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	32	0	12	0	0	15	0	4	5		
South America East Coast to U.S. Southeast Coast (1302)	80	80	93	0	20	24	0	26	208	257	0	212	0	0	262	0	207	256		
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	204	252	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Southeast Coast (1402)	954	954	954	0	1,233	1,522	0	1,607	1,607	1,984	0	2,273	0	2,878	2,807	0	2,878	3,553		
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	24	29	0	33	33	41	0	51	0	0	63	0	72	89		
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Southeast Coast (1902)	159	159	300	0	263	325	0	341	341	421	0	464	0	0	573	0	607	749		
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	6	8	0	6	6	7	0	6	0	0	7	0	7	8		
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Southeast Coast Routes	0	1,225	2,881	0	1,805	2,228	0	2,268	2,268	2,800	0	3,071	0	3,837	3,791	0	3,837	4,737		
Total - US Routes	95	43,275	112,339	63	44,251	78,020	65	48,056	48,056	83,244	66	52,550	70	58,172	89,900	70	58,172	98,715		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	263	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	1,564	0	4	4	0	0	4	0	0	5	0	3	4	0	3	3	0	3
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	8	8	0	0	8	0	0	9	0	0	7	8	0	6	7	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	348	348	0	514	601	0	0	0	0	684	800	0	1,014	1,186	0	1,322	1,547	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	9	4,098	13,879	6	8,874	10,379	8	0	0	0	11,177	13,072	10	15,499	18,128	13	19,738	23,065	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	2,529	2,957	0	0	0	0	3,636	4,252	0	5,702	6,670	0	8,070	9,438	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	1,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	2,300	0	41	48	0	0	53	0	0	62	0	73	85	0	95	111	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	9	4,446	20,154	6	11,969	13,999	8	15,562	18,201	10	22,299	26,081	13	29,234	34,191					
Total - US Routes	86	48,330	153,437	80	85,252	145,146	99	106,191	179,040	133	143,821	238,940	163	183,327	302,855					

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - 175,000 to 250,000 DWT (FF)
On U.S. Southeast Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	0	0	0	695	0	2,073	2,424	0	2,694	3,151	0	3,861	4,515	0	5,063	5,921	0	34,008	43,005	0
Total - US Routes	16	1,226	29,728	2	15,550	19,546	3	19,474	24,534	3	26,569	33,550	4	34,008	43,005	0	0	0	0	0

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipyard Tankers - Greater than 250,000 DWT (FG)
On U.S. Southeast Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	1,642	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	1	27	4,635	0	94	110	0	123	144	0	178	208	0	235	275

Total - US Routes 26 29,156 73,643 53 67,935 126,838 67 84,775 160,555 94 115,564 217,955 122 147,902 278,039

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For ShipType Gas Tankers (GA)
On U.S. Southeast Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	23	94	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	56	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	1	29	247	1	12	229	1	20	251	1	36	211	0	60	155
South America East Coast to U.S. Southeast Coast (1302)	0	22	98	0	44	97	0	48	107	0	40	89	0	30	66
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	39	39	0	80	179	0	113	252	0	192	426	0	293	652
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	1	121	596	1	136	505	1	182	610	1	268	726	1	383	873
Total - US Routes	70	3,540	21,365	49	5,185	22,894	56	6,747	29,175	64	9,394	39,007	86	12,788	52,852

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Vehicle Carriers (HB)
On U.S. Southeast Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	2	0	1,056	1	0	1,169	1	0	1,119	1	0	1,119	1	0	1,119	1	0	1,119	1	0
Northern Europe to U.S. Southeast Coast (0802)	2	99	843	1	108	1,198	1	103	1,146	1	69	768	1	69	768	1	41	458	1	41
U.S. Southeast Coast to Southern Europe (0209)	1	0	172	0	0	58	0	0	56	0	0	56	0	0	56	0	0	56	0	0
Southern Europe to U.S. Southeast Coast (0902)	1	1	90	0	3	33	0	3	32	0	3	28	0	3	28	0	2	23	0	2
U.S. Southeast Coast to Japan (0210)	10	0	1,392	9	0	2,630	8	0	2,506	7	0	1,975	7	0	1,975	5	0	1,391	5	0
Japan to U.S. Southeast Coast (1002)	15	415	2,293	13	355	3,942	13	333	3,757	10	269	2,987	10	269	2,987	7	188	2,085	7	188
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	2	0	213	3	0	1,400	4	0	1,847	7	0	3,011	7	0	3,011	10	0	4,337	10	0
Far East NIC's to U.S. Southeast Coast (1202)	1	45	106	2	85	945	3	112	1,247	5	183	2,034	5	183	2,034	7	264	2,929	7	264
U.S. Southeast Coast to South America East Coast (0213)	1	0	303	1	0	606	2	0	831	3	35	1,267	3	35	1,267	4	45	1,631	4	45
South America East Coast to U.S. Southeast Coast (1302)	0	9	287	0	17	184	1	23	252	1	0	0	1	0	0	1	0	495	1	0
South America West Coast to U.S. Southeast Coast (0214)	1	0	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to U.S. Southeast Coast (1402)	1	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	1	0	244	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	1	0	209	0	0	164	0	0	227	0	0	227	0	0	217	0	0	192	0	0
Other Med to U.S. Southeast Coast (1902)	0	23	60	0	6	62	0	8	86	0	7	82	0	7	82	0	7	73	0	7
U.S. Southeast Coast to China (0221)	0	0	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	2	0	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	1	0	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	43	592	8,205	32	573	12,390	34	587	13,105	35	566	13,571	36	546	14,105	36	546	14,105	36	546

Total - US Routes

103,936

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Product Tankers - Less than 10,000 DWT (PA)
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Southeast Coast to Northern Europe (0200)	0	14	15	0	0	13	0	11	0	0	14	0	6	0	8	3	0	0	5	
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to Southern Europe (0209)	0	4	15	0	1	1	0	1	0	1	1	0	1	0	1	0	0	0	0	
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to South America East Coast (0213)	1	61	118	1	55	72	1	74	1	86	96	1	86	1	112	121	1	121	159	
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to South America West Coast (0214)	0	2	10	0	6	8	0	9	0	20	26	0	20	0	26	36	0	47	0	
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Med to U.S. Southeast Coast (1902)	0	2	37	0	4	5	0	5	0	7	6	0	7	0	9	9	0	12	0	
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South East Asia to U.S. Southeast Coast (2202)	0	8	20	0	4	5	0	3	0	2	4	0	2	0	2	1	0	1	0	
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	29	37	0	35	0	40	46	0	40	0	53	44	0	58	0	
Total - U.S. Southeast Coast Routes	1	91	215	1	109	143	1	138	1	162	211	1	162	1	215	281				
Total - US Routes	19	757	2,017	28	1,002	3,004	33	1,209	38	1,534	4,325	44	2,034	5,157						

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 10,000 to 40,000 DWT (PB)
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S., Southeast Coast to Northern Europe (0208)	0	0	0	0	2	2	0	0	3	0	1	1	0	0	1	0	0	1		
Northern Europe to U.S., Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S., Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S., Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S., Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S., Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S., Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S., Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S., Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Far East NIC's to U.S., Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S., Southeast Coast to South America East Coast (0213)	0	0	0	0	10	13	0	13	17	0	15	20	0	0	20	0	21	28		
South America East Coast to U.S., Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S., Southeast Coast to South America West Coast (0214)	0	0	0	0	1	1	0	2	2	0	3	5	0	0	5	0	6	8		
South America West Coast to U.S., Southeast Coast (1402)	0	267	267	0	293	383	0	341	446	0	351	459	0	339	443	0	399	443		
U.S., Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S., Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S., Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S., Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S., Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S., Southeast Coast (1702)	0	0	0	0	2	3	0	2	3	0	3	4	0	0	4	0	4	5		
U.S., Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S., Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S., Southeast Coast to Corner Med (0219)	0	13	63	0	22	29	0	29	38	0	40	52	0	52	69	0	69	87		
Other Med to U.S., Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S., Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S., Southeast Coast (2102)	1	27	66	1	9	168	0	11	158	1	18	164	1	31	184	1	184	184		
U.S., Southeast Coast to South East Asia (0222)	1	6	185	1	172	225	1	162	211	1	168	220	1	189	248	1	248	248		
South East Asia to U.S., Southeast Coast (2202)	1	43	229	1	43	151	1	51	185	1	90	213	1	143	234	1	234	234		
U.S., Southeast Coast to Indian Sub-Continent (0223)	1	16	270	1	43	56	0	52	69	0	61	79	0	67	87	0	87	87		
Indian Sub-Continent to U.S., Southeast Coast (2302)	0	24	94	0	43	56	0	52	69	0	61	79	0	67	87	0	87	87		
Total - U.S., Southeast Coast Routes	4	396	1,174	2	598	1,033	3	666	1,132	3	751	1,218	3	854	1,308	3	854	1,308		
Total - US Routes	40	4,148	10,671	22	4,008	7,064	23	4,347	7,740	25	5,022	8,575	30	6,171	10,414	30	6,171	10,414		

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Product Tankers - 40,000 to 80,000 DWT (PC)
On U.S. Southeast Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	52	90	0	106	135	0	64	82	0	71	0	0	91	0	85	109	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	51	51	0	48	61	0	55	71	0	44	0	0	56	0	34	44	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	1	139	642	1	101	1,167	1	130	1,300	0	61	2	0	1,609	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	1	1,049	1,049	2	1,267	1,618	2	1,412	1,803	0	1,747	3	0	2,231	0	20	1,945	3	2,112	2,697
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	268	268	0	335	428	0	399	497	0	394	0	0	504	0	372	475	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	43	0	5	7	0	8	10	0	12	0	0	15	0	17	21	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	24	74	0	46	58	0	59	76	0	81	0	0	103	0	106	135	0	0	0
U.S. Southeast Coast to China (0221)	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	43	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	39	50	0	37	47	0	38	0	0	49	0	43	55	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	8	10	0	9	12	0	16	0	0	20	0	25	32	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	7	9	0	8	10	0	9	0	0	12	0	10	13	0	0	0
Total - U.S. Southeast Coast Routes	3	1,583	2,398	3	1,963	3,546	3	2,174	3,910	4	2,478	4,695	5	2,830	5,533	133	49,436	107,099		
Total - US Routes	76	26,612	57,511	96	35,219	74,004	104	38,712	80,731	113	42,351	90,463	133	49,436	107,099					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Product Tankers - 80,000 to 100,000 DWT (TD)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0202)	0	0	0	0	19	23	0	0	11	14	0	13	0	0	19
Northern Europe to U.S. Southeast Coast (0202)	0	44	84	0	99	122	0	0	123	151	0	194	0	283	350
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0209)	0	6	84	0	12	15	0	0	14	17	0	11	0	9	11
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	84	0	18	22	0	0	23	28	0	11	0	4	4
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	224	276	0	0	249	308	0	308	0	373	460
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	72	0	0	0	55	68
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	50	62	0	0	58	72	0	59	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	6	7	0	0	8	10	0	13	0	18	22
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	84	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	66	81	0	0	85	105	0	116	0	152	187
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	2	2	0	0	1	2	0	2	0	2	2
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	0	49	336	0	494	610	0	573	707	707	0	725	0	910	1,123
Total - US Routes	20	11,023	26,428	31	17,832	40,945	33	19,356	43,702	38	22,862	50,894	43	27,968	60,826

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipoyne Product Tankers - 100,000 to 175,000 DWT (PE)
On U.S. Southeast Coast Routes

RO TE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	18	20	0	22	0	34	40	0	0	0	50	58	0	0	0	
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	5	6	0	6	0	5	6	0	0	0	4	4	0	0	0	
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	12	0	13	0	0	16	0	18	0	0	24	0	0	28	
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total - U.S. Southeast Coast Routes	0	0	0	0	670	784	0	957	0	1,495	1,120	0	1,495	0	2,112	1,748	0	2,112	2,470	
Total - US Routes	2	1,428	3,457	4	7,765	12,240	4	9,967	4	14,280	14,746	5	14,280	5	19,276	19,796	5	19,276	25,724	

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Product Tankers - 175,000 to 250,000 DWT (PF)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	0	0	0	0	113	132	0	162	190	0	254	297	0	359	420
Total - US Routes	0	0	0	0	1,005	1,175	0	1,365	1,596	0	2,036	2,381	0	2,797	3,271

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship Type Other Ships (00X)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	2	21	1,141	0	48	356	1	51	401	1	49	453	1	45	498
Northern Europe to U.S. Southeast Coast (0802)	1	77	616	0	156	193	0	176	217	0	199	245	1	214	264
U.S. Southeast Coast to Southern Europe (0209)	1	23	688	0	25	84	0	25	116	0	22	181	0	20	273
Southern Europe to U.S. Southeast Coast (0902)	0	9	188	0	20	24	0	27	33	0	42	52	0	63	78
U.S. Southeast Coast to Japan (0210)	1	1	228	1	1	203	1	1	281	2	1	412	3	1	605
Japan to U.S. Southeast Coast (1002)	1	100	168	1	121	150	1	168	207	2	246	304	2	361	446
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	10	91	0	27	97	1	50	149	1	107	278	2	210	490
Far East NIC's to U.S. Southeast Coast (1202)	0	8	23	0	20	26	0	30	37	0	56	69	1	99	122
U.S. Southeast Coast to South America East Coast (0213)	2	151	537	1	212	262	2	279	345	2	324	487	3	558	689
South America East Coast to U.S. Southeast Coast (1302)	2	36	606	1	66	285	1	85	375	3	117	529	3	152	749
U.S. Southeast Coast to South America West Coast (0214)	0	21	48	14	32	6,473	14	37	6,688	16	39	7,397	16	39	7,762
South America West Coast to U.S. Southeast Coast (1402)	0	4	4	8	422	521	8	436	539	9	483	596	10	506	7,625
U.S. Southeast Coast to East Africa (0215)	1	0	427	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	1	0	291	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	1	35	0	0	0	0	0	5	0	0	9	0	0	14
South Africa to U.S. Southeast Coast (1702)	0	0	24	0	1	1	0	2	161	0	3	277	1	332	410
U.S. Southeast Coast to Arabian Gulf (0218)	1	20	488	0	82	102	0	131	175	1	224	277	1	332	410
Arabian Gulf to U.S. Southeast Coast (1802)	1	0	197	0	1	47	0	2	75	0	3	129	1	5	190
U.S. Southeast Coast to Other Med (0219)	1	9	363	0	11	13	0	14	17	0	14	18	0	12	14
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	9	11	1	19	69	1	25	71	1	39	109	2	57	164
China to U.S. Southeast Coast (2102)	0	2	3	1	12	15	1	13	16	1	20	24	2	30	37
U.S. Southeast Coast to South East Asia (0222)	0	0	329	0	0	1	0	0	1	0	0	1	0	0	2
South East Asia to U.S. Southeast Coast (2202)	2	1	438	0	1	1	0	1	1	0	1	2	0	2	2
U.S. Southeast Coast to Indian Sub-Continent (0223)	1	2	416	0	1	1	0	1	1	0	0	1	0	0	1
Indian Sub-Continent to U.S. Southeast Coast (2302)	1	0	208	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	21	504	7,589	29	1,280	8,926	32	1,555	9,740	39	2,060	11,574	47	2,712	13,433
Total - US Routes	121	4,312	39,929	104	8,033	24,083	134	9,808	28,048	179	12,739	35,395	220	16,255	43,535

Gulf Coast

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype General Cargo - Greater than 10,000 DWT (AA)
On U.S. Gulf Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Gulf Coast to Northern Europe (0308)	7	262	1,135	2	351	459	3	370	3	484	522	3	400	3	422	551				
Northern Europe to U.S. Gulf Coast (0803)	4	216	837	1	233	503	1	237	2	531	573	2	202	2	175	605				
U.S. Gulf Coast to Southern Europe (0309)	7	462	1,167	2	426	557	2	478	2	625	808	3	586	3	780	1,044				
Southern Europe to U.S. Gulf Coast (0903)	3	379	647	1	228	365	1	279	1	410	530	1	406	1	524	685				
U.S. Gulf Coast to Japan (0310)	2	276	276	1	219	286	1	226	1	295	210	0	161	0	100	131				
Japan to U.S. Gulf Coast (1003)	3	203	443	2	137	341	2	132	1	351	251	1	74	1	54	156				
U.S. Gulf Coast to Australia/New Zealand (0311)	1	35	85	1	69	91	1	109	2	142	239	3	183	3	287	375				
Australia/New Zealand to U.S. Gulf Coast (1103)	0	10	10	0	16	34	0	17	0	152	90	0	18	0	17	141				
U.S. Gulf Coast to Far East NIC's (0312)	0	54	54	0	111	137	0	150	0	185	230	1	235	1	343	423				
Far East NIC's to U.S. Gulf Coast (1203)	0	39	39	0	25	96	1	28	1	130	204	1	28	1	28	297				
U.S. Gulf Coast to South America East Coast (0313)	30	1,357	5,461	13	1,393	2,037	16	1,965	26	2,595	4,191	38	3,206	38	4,666	6,100				
South America East Coast to U.S. Gulf Coast (1303)	19	1,015	5,624	8	1,521	1,988	10	1,670	17	2,533	4,089	25	1,815	25	1,942	5,932				
U.S. Gulf Coast to South America West Coast (0314)	8	328	1,526	5	319	746	5	405	5	745	839	7	617	7	894	1,169				
South America West Coast to U.S. Gulf Coast (1403)	4	351	957	2	410	536	2	409	3	535	602	4	461	4	502	699				
U.S. Gulf Coast to East Africa (0315)	3	225	353	0	44	57	0	51	1	67	86	1	65	1	73	95				
East Africa to U.S. Gulf Coast (1503)	1	18	186	0	15	35	0	10	0	42	53	0	3	0	1	59				
U.S. Gulf Coast to West Africa (0316)	4	456	579	2	391	511	3	426	3	557	644	3	493	3	550	719				
West Africa to U.S. Gulf Coast (1603)	1	42	106	0	36	140	0	47	0	153	176	0	56	0	71	197				
U.S. Gulf Coast to South Africa (0317)	3	205	417	3	211	479	3	285	3	478	538	4	411	4	530	693				
South Africa to U.S. Gulf Coast (1703)	1	250	250	1	282	348	1	281	2	367	413	2	269	2	273	532				
U.S. Gulf Coast to Arabian Gulf (0318)	6	611	1,185	3	350	458	3	396	4	521	757	6	458	6	701	1,082				
Arabian Gulf to U.S. Gulf Coast (1803)	1	2	79	0	62	96	0	84	0	110	160	1	122	1	174	228				
U.S. Gulf Coast to Other Med (0319)	5	628	780	2	344	449	2	352	2	461	557	3	428	3	564	737				
Other Med to U.S. Gulf Coast (1903)	1	165	287	1	110	171	1	113	1	175	212	1	126	1	137	281				
U.S. Gulf Coast to China (0321)	2	344	344	20	597	3,739	29	1,187	43	5,396	7,790	58	1,915	58	2,722	10,659				
China to U.S. Gulf Coast (2103)	0	13	13	1	230	301	1	332	2	434	627	3	480	3	657	858				
U.S. Gulf Coast to South East Asia (0322)	5	54	579	1	84	151	1	125	2	166	282	3	215	3	353	462				
South East Asia to U.S. Gulf Coast (2203)	1	73	138	0	71	93	0	78	0	103	174	1	84	1	91	285				
U.S. Gulf Coast to Indian Sub-Continent (0323)	3	123	402	1	163	213	1	243	3	318	642	5	491	5	902	1,180				
Indian Sub-Continent to U.S. Gulf Coast (2303)	1	5	127	0	3	172	0	3	1	257	519	2	4	2	5	954				
Total - U.S. Gulf Coast Routes	125	8,199	23,886	75	8,450	15,608	93	10,511	132	19,208	27,067	183	14,010	183	18,540	37,489				
Total - US Routes	337	23,476	71,839	209	28,449	56,451	263	35,612	379	71,071	102,581	525	47,876	525	63,438	141,863				

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype General Cargo - Less than 10,000 DWT (AB)
On U.S. Gulf Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Gulf Coast to Northern Europe (0308)	6	84	352	2	83	143	2	90	153	101	168	3	110	168	101	168	3	110	168	
Northern Europe to U.S. Gulf Coast (0803)	1	48	129	1	37	55	1	39	58	43	64	1	48	64	43	64	1	48	71	
U.S. Gulf Coast to Southern Europe (0309)	1	9	70	0	8	11	0	9	13	9	14	0	9	14	9	14	0	9	16	
Southern Europe to U.S. Gulf Coast (0903)	1	21	71	0	10	21	0	12	23	16	25	0	20	25	16	25	0	20	29	
U.S. Gulf Coast to Japan (0310)	0	17	17	0	8	12	0	8	12	6	9	0	4	9	6	9	0	4	6	
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Far East NIC's (0312)	1	13	17	1	12	15	1	18	22	29	36	1	39	36	29	36	1	39	48	
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to South America East Coast (0313)	47	493	3,168	12	397	696	15	565	837	974	1,443	41	1,539	1,443	974	1,443	41	1,539	2,280	
South America East Coast to U.S. Gulf Coast (1303)	27	514	2,937	7	377	559	9	376	672	363	1,159	23	358	672	363	1,159	23	358	1,830	
U.S. Gulf Coast to South America West Coast (0314)	6	148	506	4	98	255	4	126	256	200	297	6	295	256	200	297	6	295	437	
South America West Coast to U.S. Gulf Coast (1403)	4	169	379	2	127	188	2	128	189	148	220	4	166	189	148	220	4	166	323	
U.S. Gulf Coast to East Africa (0315)	1	9	27	0	3	5	0	4	6	5	8	0	5	6	5	8	0	5	8	
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to West Africa (0316)	1	50	57	0	26	39	0	28	41	23	34	0	18	41	23	34	0	18	27	
West Africa to U.S. Gulf Coast (1603)	0	3	27	0	2	17	0	2	19	9	15	0	3	19	9	15	0	3	12	
U.S. Gulf Coast to South Africa (0317)	0	10	26	0	5	7	0	6	9	2	9	0	12	9	2	12	0	12	18	
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	10	14	0	10	14	10	14	0	10	14	10	14	0	10	15	
U.S. Gulf Coast to Arabian Gulf (0318)	0	7	24	2	62	92	3	84	124	141	208	6	183	124	141	208	6	183	271	
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Other Med (0319)	0	19	27	0	6	10	0	5	26	5	28	0	5	26	5	28	0	5	30	
Other Med to U.S. Gulf Coast (1903)	0	7	12	0	7	10	0	8	11	8	12	0	9	11	8	12	0	9	13	
U.S. Gulf Coast to China (0321)	0	7	10	0	2	4	0	5	7	7	11	0	10	7	7	11	0	10	13	
China to U.S. Gulf Coast (2103)	0	0	0	0	12	18	0	16	24	21	32	0	28	24	21	32	0	28	42	
U.S. Gulf Coast to South East Asia (0322)	0	0	3	0	0	4	0	0	4	0	4	0	0	4	0	4	0	0	5	
South East Asia to U.S. Gulf Coast (2203)	0	5	10	0	3	5	0	3	5	0	5	0	4	5	0	5	0	4	6	
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	3	4	0	3	5	4	6	0	5	5	4	6	0	5	8	
Total - U.S. Gulf Coast Routes	98	1,633	7,877	33	1,297	2,196	38	1,545	2,531	2,130	3,827	88	2,880	3,827	2,130	3,827	88	2,880	5,695	
Total - US Routes	184	3,657	15,320	75	3,169	6,058	89	3,734	7,111	5,029	10,024	185	6,790	10,024	5,029	10,024	185	6,790	14,132	

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Greater than 10,000 DWT (AC)
On U.S. Gulf Coast Routes

ROUTE	1987					1995					2000					2010					2020				
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS				
U.S. Gulf Coast to Northern Europe (0308)	5	2,021	2,051	7	2,270	2,968	8	2,460	3,216	8	2,582	3,375	8	2,649	3,463	8	2,649	3,463	8	2,649	3,463				
Northern Europe to U.S. Gulf Coast (0803)	4	976	1,372	5	1,125	2,059	5	1,178	2,232	5	1,161	2,342	6	1,208	2,403	6	1,208	2,403	6	1,208	2,403				
U.S. Gulf Coast to Southern Europe (0309)	3	595	775	3	690	927	4	769	1,174	4	849	1,673	5	915	1,691	5	915	1,691	5	915	1,691				
Southern Europe to U.S. Gulf Coast (0903)	2	426	540	2	495	647	3	627	820	4	894	1,168	4	1,204	1,691	5	1,204	1,691	5	1,204	1,691				
U.S. Gulf Coast to Japan (0310)	3	150	1,282	5	286	1,899	5	321	2,029	4	395	2,787	5	466	3,077	5	466	3,077	5	466	3,077				
Japan to U.S. Gulf Coast (1003)	2	602	602	3	683	893	3	730	954	2	643	840	2	748	977	3	748	977	3	748	977				
U.S. Gulf Coast to Australia/New Zealand (0311)	2	270	536	3	655	856	5	1,032	1,349	5	1,673	2,187	13	2,570	3,360	13	2,570	3,360	13	2,570	3,360				
U.S. Gulf Coast to Australia/New Zealand to U.S. Gulf Coast (1103)	0	74	102	1	99	165	1	107	1,349	2	1,628	2,128	3	2,445	3,222	3	2,445	3,222	3	2,445	3,222				
U.S. Gulf Coast to Far East NIC's (0312)	3	72	1,064	2	487	703	3	894	1,168	6	1,448	1,892	9	2,326	3,040	9	2,326	3,040	9	2,326	3,040				
Far East NIC's to U.S. Gulf Coast (1203)	1	250	250	1	126	165	1	140	1,216	2	1,448	1,892	2	1,448	1,892	2	1,448	1,892	2	1,448	1,892				
U.S. Gulf Coast to South America East Coast (0313)	3	461	506	4	597	989	5	863	1,216	8	1,776	2,322	13	2,326	3,040	20	2,326	3,040	20	2,326	3,040				
South America East Coast to U.S. Gulf Coast (1303)	5	536	1,347	6	1,445	1,888	8	1,776	2,322	12	2,200	3,611	20	2,587	5,892	20	2,587	5,892	20	2,587	5,892				
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	53	70	0	68	88	0	77	103	0	83	104	0	83	104	0	83	104				
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	68	89	0	68	89	0	77	103	0	83	104	0	83	104	0	83	104				
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	10	0	9	12	0	11	15	0	13	17	0	13	17	0	13	17				
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	3	3	0	2	97	0	86	113	0	96	126	0	96	126	0	96	126				
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	68	89	0	68	89	0	72	94	0	93	122	0	93	122	0	93	122				
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	7	9	0	6	65	0	72	94	0	93	122	0	93	122	0	93	122				
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	37	49	0	36	48	0	40	52	0	44	57	0	44	57	0	44	57				
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	344	450	2	470	615	4	597	897	7	1,511	1,976	7	1,511	1,976	7	1,511	1,976				
U.S. Gulf Coast to Arabian Gulf (0318)	1	195	283	2	344	450	2	470	615	4	597	897	5	1,511	1,976	5	1,511	1,976	5	1,511	1,976				
Arabian Gulf to U.S. Gulf Coast (1803)	1	37	148	1	32	312	2	846	1,106	3	1,176	1,537	6	1,528	1,998	6	1,528	1,998	6	1,528	1,998				
U.S. Gulf Coast to Other Med (0319)	1	201	201	2	595	778	3	846	1,106	5	1,176	1,537	6	1,528	1,998	6	1,528	1,998	6	1,528	1,998				
Other Med to U.S. Gulf Coast (1903)	0	89	107	2	105	415	0	466	609	3	422	551	4	528	698	4	528	698	4	528	698				
U.S. Gulf Coast to China (0321)	0	0	0	0	451	589	0	466	609	0	422	551	0	528	698	0	528	698	0	528	698				
China to U.S. Gulf Coast (2103)	0	0	441	0	119	156	0	6	8	0	9	11	0	12	15	0	12	15	0	12	15				
U.S. Gulf Coast to South East Asia (0322)	1	38	180	1	25	59	1	210	274	2	410	536	2	737	963	2	737	963	2	737	963				
South East Asia to U.S. Gulf Coast (2203)	0	60	68	0	25	59	0	22	104	0	20	204	0	18	367	0	18	367	0	18	367				
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	1	1	0	2	2	0	3	3	0	6	7	0	6	7	0	6	7				
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	9	11	0	8	11	0	8	10	0	9	11	0	9	11	0	9	11				
Total - U.S. Gulf Coast Routes	38	7,018	12,257	49	10,922	17,302	61	13,418	21,170	85	17,321	28,099	122	22,456	38,650	122	22,456	38,650	122	22,456	38,650				
Total - US Routes	270	59,769	113,874	361	94,266	161,096	459	118,600	206,262	668	166,153	300,329	907	234,546	403,474	907	234,546	403,474	907	234,546	403,474				

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Less than 10,000 DMT (MD)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	23	48	1	75	98	1	1	79	1	88	115	1	95	124
Northern Europe to U.S. Gulf Coast (0303)	0	25	40	1	48	100	1	1	51	1	52	117	1	54	127
U.S. Gulf Coast to Southern Europe (0309)	0	0	0	0	4	5	0	0	4	0	5	6	0	5	6
Southern Europe to U.S. Gulf Coast (0303)	0	1	5	0	7	9	0	0	8	0	10	13	0	13	17
U.S. Gulf Coast to Japan (0310)	0	0	0	0	4	5	0	0	4	0	3	4	0	2	2
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	6	7	0	0	9	0	15	18	0	20	24
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	9	240	1,033	10	514	999	11	740	740	17	1,299	1,646	27	2,015	2,634
South America East Coast to U.S. Gulf Coast (1303)	7	241	1,023	7	817	1,068	9	957	957	13	1,132	1,871	21	1,296	2,995
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	50	65	0	64	64	0	101	132	0	149	195
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	64	84	0	64	64	0	75	98	0	83	109
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	2	2	0	2	2	0	3	3	0	3	4
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	13	17	0	14	14	0	11	15	0	9	12
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	1	1	0	1	1	0	1	2	0	2	2
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	2	3	0	3	3	0	5	6	0	6	8
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	5	6	0	5	5	0	5	6	0	5	7
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	31	41	0	42	42	0	71	93	0	92	121
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	3	4	0	3	3	0	2	3	0	3	3
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	5	7	0	6	6	0	7	9	0	8	11
U.S. Gulf Coast to China (0321)	0	0	0	0	1	2	0	3	3	0	4	5	0	5	6
China to U.S. Gulf Coast (2103)	0	0	0	0	6	8	0	8	8	0	11	14	0	14	19
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	2	2	0	2	2	0	2	2	0	2	3
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	1	2	0	2	2	0	2	3	0	3	3
Total - U.S. Gulf Coast Routes	16	530	2,149	19	1,661	2,475	22	2,070	2,070	32	2,862	4,182	50	3,883	6,432
Total - US Routes	36	1,706	4,782	52	4,827	7,566	59	5,803	5,803	77	7,521	11,002	111	9,845	15,225

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COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Ratio - Greater than 10,000 DWT (AE)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0306)	3	408	1,271	1	491	777	1	540	806	1	585	813	1	597	804
Northern Europe to U.S. Gulf Coast (0803)	3	303	1,068	1	324	450	1	336	466	1	336	470	1	347	483
U.S. Gulf Coast to Southern Europe (0309)	0	107	244	0	162	226	0	194	269	0	263	346	0	334	466
Southern Europe to U.S. Gulf Coast (0903)	1	117	428	0	89	353	0	109	421	0	157	573	1	204	727
U.S. Gulf Coast to Japan (0310)	0	25	30	0	117	163	0	119	166	0	116	161	0	104	144
Japan to U.S. Gulf Coast (1003)	3	0	1,148	1	0	409	1	0	417	1	0	406	1	1	353
U.S. Gulf Coast to Australia/New Zealand (0311)	1	42	293	2	80	538	2	126	634	3	212	855	3	338	962
Australia/New Zealand to U.S. Gulf Coast (1103)	0	15	31	0	37	51	0	43	60	0	59	81	0	66	92
U.S. Gulf Coast to Far East NIC's (0312)	0	29	31	0	104	128	0	144	178	0	246	304	0	383	472
Far East NIC's to U.S. Gulf Coast (1203)	1	36	259	2	25	599	1	28	832	1	28	1,425	2	28	2,213
U.S. Gulf Coast to South America East Coast (0313)	1	53	106	0	163	337	3	229	431	1	344	563	5	543	754
South America East Coast to U.S. Gulf Coast (1303)	1	122	259	2	388	539	2	496	690	3	648	900	3	759	1,206
U.S. Gulf Coast to South America West Coast (0314)	1	78	268	2	78	370	2	103	391	2	163	424	2	242	450
South America West Coast to U.S. Gulf Coast (1403)	0	22	32	0	48	67	0	51	70	0	55	76	0	58	81
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	1	13	130	0	18	25	0	25	34	0	33	46	0	33	46
West Africa to U.S. Gulf Coast (1603)	0	9	74	0	9	25	0	11	34	0	12	46	0	15	46
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	45	62	0	44	61	0	44	61	0	46	64
U.S. Gulf Coast to Arabian Gulf (0318)	2	178	802	1	117	237	1	156	323	1	250	470	2	386	671
Arabian Gulf to U.S. Gulf Coast (1803)	1	4	335	0	197	273	0	268	373	1	390	542	1	557	774
U.S. Gulf Coast to Other Med (0319)	0	127	127	0	83	115	0	70	98	0	63	87	0	68	94
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	4	6	0	5	7	0	5	8	0	6	8
U.S. Gulf Coast to China (0321)	0	21	28	0	48	67	0	79	110	0	143	199	0	236	328
China to U.S. Gulf Coast (2103)	0	0	0	0	13	18	0	18	24	0	25	34	0	33	46
U.S. Gulf Coast to South East Asia (0322)	1	83	329	0	100	140	1	156	217	2	330	459	3	659	915
South East Asia to U.S. Gulf Coast (2203)	1	8	215	0	9	437	1	10	680	1	11	1,438	2	12	2,866
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	22	43	0	34	47	0	52	72	0	109	152	1	215	288
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	24	33	0	34	47	0	45	63	0	57	79
Total - U.S. Gulf Coast Routes	22	1,821	7,536	14	2,807	6,491	17	3,445	7,911	22	4,692	11,022	29	6,326	15,480
Total - US Routes	100	9,293	38,142	60	15,888	33,720	70	19,444	40,712	92	26,383	55,502	124	35,388	75,361

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type RORO - Less than 10,000 DWT (AF)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	1	34	143	1	34	107	1	1	37	1	40	123	1	39	133
Northern Europe to U.S. Gulf Coast (0803)	0	6	11	0	7	10	0	0	23	0	8	11	0	9	12
U.S. Gulf Coast to Southern Europe (0309)	1	18	71	0	20	28	0	0	23	0	27	37	0	28	44
Southern Europe to U.S. Gulf Coast (0903)	0	5	30	0	4	8	0	0	5	0	7	11	0	10	13
U.S. Gulf Coast to Japan (0310)	0	4	6	0	5	7	0	0	6	0	7	10	0	9	12
Japan to U.S. Gulf Coast (1003)	0	2	8	0	1	8	0	0	1	0	1	11	0	0	13
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	9	346	726	13	367	936	16	525	525	21	876	1,563	25	1,345	1,868
South America East Coast to U.S. Gulf Coast (1303)	8	407	503	10	798	1,109	13	1,023	1,023	17	1,333	1,851	20	1,565	2,212
U.S. Gulf Coast to South America West Coast (0314)	1	42	68	1	28	114	1	36	36	1	57	125	1	85	130
South America West Coast to U.S. Gulf Coast (1403)	1	37	95	1	70	97	1	72	72	1	77	107	1	80	111
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	3	4	0	3	3	0	3	3	0	3	4
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	8	0	14	19	0	19	19	0	28	39	0	40	55
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	3	16	0	4	5	0	4	4	0	4	6	0	5	6
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	22	904	1,986	26	1,375	2,450	33	1,763	1,763	42	2,467	3,899	50	3,217	4,614
Total - US Routes	127	2,502	11,441	68	3,507	6,849	76	4,139	4,139	90	5,433	8,950	108	6,936	10,690

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship Type Reefer (BA)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0306)	0	18	40	0	12	23	0	13	25	0	11	20	0	8	15
Northern Europe to U.S. Gulf Coast (0803)	1	29	121	0	24	99	1	20	107	1	12	85	0	6	66
U.S. Gulf Coast to Southern Europe (0309)	0	0	86	0	0	5	0	0	5	0	0	6	0	0	6
Southern Europe to U.S. Gulf Coast (0903)	0	1	52	0	1	2	0	1	2	0	1	2	0	1	2
U.S. Gulf Coast to Japan (0310)	1	37	86	2	103	191	2	125	232	2	144	267	2	145	268
Japan to U.S. Gulf Coast (1003)	0	0	16	0	0	45	1	0	55	0	0	63	1	0	63
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	6	67	740	9	33	1,194	9	34	1,115	0	44	1,022	0	0	859
South America East Coast to U.S. Gulf Coast (1303)	5	532	899	8	650	1,203	7	606	1,123	8	556	1,030	7	473	876
U.S. Gulf Coast to South America West Coast (0314)	1	8	116	1	2	210	1	2	218	2	138	266	2	0	302
South America West Coast to U.S. Gulf Coast (1403)	1	64	103	1	109	201	1	113	210	2	138	255	2	156	290
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	4	0	0	1	0	0	1	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	3	5	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	16	0	0	1	0	0	1	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	3	5	0	4	7	0	7	12	0	11	20	1	14	26
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	1	16	26	1	20	36	1	23	43	2	37	68	2	54	101
Other Med to U.S. Gulf Coast (1903)	0	0	22	0	0	31	0	0	36	1	0	57	1	0	85
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	1	0	34	0	0	6	0	0	6	0	0	6	0	0	6
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	3	6	0	1	1	0	1	1	0	1	1	0	1	1
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	20	703	2,397	24	959	3,257	24	947	3,193	25	956	3,171	24	911	2,978

Total - US Routes

108 4,151 16,305 172 7,726 30,897 179 8,281 32,346 205 9,431 38,043 228 10,349 42,874

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - (Less than 20,000 DWT (DA))
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	6	307	990	3	175	640	3	190	624	3	120	590	3	82	548
Northern Europe to U.S. Gulf Coast (0803)	2	295	554	2	275	359	1	268	351	1	254	332	1	244	319
U.S. Gulf Coast to Southern Europe (0309)	2	290	413	2	279	364	2	258	337	1	117	153	0	87	143
Southern Europe to U.S. Gulf Coast (0903)	2	47	345	1	28	290	1	35	289	1	56	122	0	87	114
U.S. Gulf Coast to Japan (0310)	0	32	33	0	18	23	0	19	25	0	14	18	0	9	11
Japan to U.S. Gulf Coast (1003)	0	6	17	0	1	11	0	1	11	0	1	8	0	0	5
U.S. Gulf Coast to Australia/New Zealand (0311)	0	11	48	0	25	33	0	38	50	1	59	78	1	91	119
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	29	36	0	29	36	0	35	43	0	44	54	0	50	62
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	12	363	1,649	11	526	1,246	12	648	1,406	15	829	1,712	21	976	2,332
South America East Coast to U.S. Gulf Coast (1303)	11	734	2,128	10	1,127	1,473	11	1,271	1,662	13	1,549	2,024	18	2,109	2,757
U.S. Gulf Coast to South America West Coast (0314)	2	69	291	3	318	416	2	154	313	2	91	231	1	64	205
South America West Coast to U.S. Gulf Coast (1403)	0	66	120	1	89	137	0	79	103	0	58	76	0	52	67
U.S. Gulf Coast to East Africa (0315)	0	4	18	0	3	4	0	3	4	0	4	6	0	5	6
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	1	85	104	1	88	116	1	122	160	1	141	184	1	117	153
West Africa to U.S. Gulf Coast (1603)	1	41	122	1	1	162	1	1	225	2	27	259	1	2	215
U.S. Gulf Coast to South Africa (0317)	1	21	92	2	9	206	2	16	284	3	27	353	3	35	430
South Africa to U.S. Gulf Coast (1703)	0	32	46	1	77	101	1	107	140	1	133	173	1	162	211
U.S. Gulf Coast to Arabian Gulf (0318)	1	81	129	0	43	56	0	40	52	0	13	18	0	3	4
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	33	41	0	47	62	0	60	79	0	51	67	0	26	35
Other Med to U.S. Gulf Coast (1903)	0	14	64	0	9	95	1	8	121	0	5	102	0	5	53
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	1	9	72	1	40	102	1	95	124	2	140	183	2	143	187
South East Asia to U.S. Gulf Coast (2203)	0	13	13	0	17	23	0	19	28	0	17	41	0	12	42
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	15	19	1	65	85	1	103	135	2	198	258	3	319	417
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	15	0	0	85	1	0	135	1	0	28	2	0	418
Total - U.S. Gulf Coast Routes	43	2,596	7,359	40	3,291	6,126	44	3,572	6,681	50	3,922	7,301	62	4,679	8,872
Total - US Routes	82	5,982	15,249	84	8,342	16,982	90	8,915	18,008	99	9,603	19,071	117	10,934	21,991

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
J.J.S. Gulf Coast to Northern Europe (0308)	15	4,747	5,360	8	2,524	3,223	9	2,826	3,612	5	1,430	1,826	3	571	1,112
Northern Europe to U.S. Gulf Coast (0803)	17	7,863	7,636	9	914	3,623	10	906	3,510	5	761	2,619	3	640	1,595
J.J.S. Gulf Coast to Southern Europe (0309)	18	3,175	5,676	8	2,648	3,440	8	2,448	3,127	5	584	1,257	3	529	1,160
Southern Europe to U.S. Gulf Coast (0903)	12	3,251	5,057	6	2,213	2,827	9	1,932	2,522	2	572	1,014	2	733	1,736
J.J.S. Gulf Coast to Japan (0310)	15	3,658	2,169	10	2,601	1,596	9	1,593	2,468	5	414	719	3	484	808
Japan to U.S. Gulf Coast (1003)	9	64	390	6	128	2,763	15	200	1,993	3	320	4,537	2	357	456
J.J.S. Gulf Coast to Australia/New Zealand (0311)	2	527	527	14	6,033	7,768	15	6,432	2,922	23	9,987	12,755	34	483	6,628
Australia/New Zealand to U.S. Gulf Coast (1103)	2	2,427	2,427	12	816	1,008	13	1,045	8,214	20	9,987	12,755	30	14,593	18,637
U.S. Gulf Coast to Far East NIC's (0312)	10	111	426	4	64	1,008	5	1,045	1,250	4	843	1,041	3	538	664
Far East NIC's to U.S. Gulf Coast (1203)	2	111	426	4	64	1,008	5	1,045	1,250	4	843	1,041	3	538	664
U.S. Gulf Coast to South America East Coast (0313)	27	4,825	8,126	20	3,978	5,508	19	3,390	5,418	19	2,735	5,219	21	2,861	5,975
South America East Coast to U.S. Gulf Coast (1303)	15	3,943	7,986	11	3,800	4,853	11	3,738	4,774	10	3,601	4,598	12	4,122	5,265
U.S. Gulf Coast to South America West Coast (0314)	6	1,913	2,680	3	1,132	1,446	3	944	1,206	2	485	619	1	274	350
South America West Coast to U.S. Gulf Coast (1403)	3	633	1,310	2	212	690	0	201	576	2	100	295	0	45	167
U.S. Gulf Coast to East Africa (0315)	1	59	291	0	25	80	0	22	79	0	14	91	0	12	85
East Africa to U.S. Gulf Coast (1503)	0	7	67	0	14	18	0	14	18	0	16	20	0	15	19
U.S. Gulf Coast to West Africa (0316)	2	622	719	2	488	623	2	559	714	2	478	610	1	391	499
West Africa to U.S. Gulf Coast (1603)	4	1,084	1,640	4	687	1,648	4	627	1,800	4	374	1,615	3	213	1,321
U.S. Gulf Coast to South Africa (0317)	1	158	298	1	90	273	1	90	329	1	86	361	1	74	409
South Africa to U.S. Gulf Coast (1703)	2	220	479	1	310	396	1	373	477	1	410	524	1	465	594
U.S. Gulf Coast to Arabian Gulf (0318)	3	777	892	3	522	667	2	468	597	2	161	483	3	39	765
Arabian Gulf to U.S. Gulf Coast (1803)	1	15	152	3	63	275	0	99	246	2	156	199	1	150	315
U.S. Gulf Coast to Other Med (0319)	11	3,628	3,967	14	4,586	5,857	19	6,062	7,742	24	5,620	9,906	39	3,795	15,966
Other Med to U.S. Gulf Coast (1903)	4	84	2,014	6	2,715	2,989	8	2,357	3,952	10	3,959	5,066	17	6,381	8,149
U.S. Gulf Coast to China (0321)	4	813	2,014	15	1,713	3,540	15	2,696	3,443	14	2,404	3,070	9	1,628	2,079
China to U.S. Gulf Coast (2103)	1	0	0	0	0	1,005	3	0	1,036	3	0	924	0	0	0
U.S. Gulf Coast to South East Asia (0322)	1	0	0	1	108	139	1	179	229	3	283	361	3	350	447
South East Asia to U.S. Gulf Coast (2203)	5	8	985	1	13	282	1	14	465	2	734	908	9	13	908
U.S. Gulf Coast to Indian Sub-Continent (0323)	5	472	541	7	867	1,105	10	1,067	1,363	10	1,542	1,969	14	2,217	2,851
Indian Sub-Continent to U.S. Gulf Coast (2303)	3	0	91	2	301	301	2	0	370	2	0	535	4	0	769
Total - U.S. Gulf Coast Routes	200	35,279	66,863	173	37,585	61,941	184	39,742	66,192	180	38,811	64,667	217	42,412	79,812
Total - US Routes	646	87,212	206,137	558	111,051	203,615	628	122,762	232,001	673	128,477	253,047	752	137,203	287,952

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Bulk Carriers - 40,000 to 80,000 DWT (DC)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	17	3,106	3,238	12	2,103	2,596	12	2,082	2,571	7	1,120	1,392	4	764	963
Northern Europe to U.S. Gulf Coast (0803)	29	694	4,845	21	816	3,732	20	815	3,646	11	691	1,987	8	589	1,356
U.S. Gulf Coast to Southern Europe (0309)	13	3,912	7,717	9	4,323	5,337	9	4,326	5,341	7	3,241	4,001	6	2,889	3,567
Southern Europe to U.S. Gulf Coast (0903)	10	1,146	7,862	7	732	5,793	7	898	5,797	5	1,297	4,343	4	1,614	3,872
U.S. Gulf Coast to Japan (0310)	26	7,406	12,347	8	4,638	6,351	8	4,688	6,168	5	3,213	4,070	4	1,956	2,945
Japan to U.S. Gulf Coast (0310)	5	678	2,109	1	725	695	1	704	889	1	465	574	1	336	415
U.S. Gulf Coast to Australia/New Zealand (0311)	2	226	783	1	498	811	2	779	962	3	1,276	1,575	4	1,955	2,414
Australia/New Zealand to U.S. Gulf Coast (1103)	3	1,101	1,157	2	2,304	2,844	2	2,461	3,373	3	3,292	5,526	5	4,258	8,468
U.S. Gulf Coast to Far East NIC's (0312)	17	5,888	7,192	12	4,495	5,550	15	5,674	7,005	14	5,304	6,548	11	4,194	5,178
Far East NIC's to U.S. Gulf Coast (1203)	1	127	608	1	88	572	1	96	723	1	93	675	1	93	534
U.S. Gulf Coast to South America East Coast (0313)	10	4,740	5,876	10	4,531	5,594	9	3,932	4,854	6	2,394	3,180	5	1,301	2,858
South America East Coast to U.S. Gulf Coast (1303)	8	3,871	8,056	8	4,416	6,916	7	4,028	6,001	5	3,185	3,932	4	2,853	3,534
U.S. Gulf Coast to South America West Coast (0314)	1	199	371	0	239	295	0	209	258	0	107	132	0	55	68
South America West Coast to U.S. Gulf Coast (1403)	1	314	473	0	187	424	0	167	370	0	81	189	0	34	98
U.S. Gulf Coast to East Africa (0315)	0	88	88	0	45	55	0	39	49	0	17	21	0	8	15
East Africa to U.S. Gulf Coast (0315)	0	117	63	0	7	46	0	8	41	0	10	17	0	10	12
U.S. Gulf Coast to West Africa (0316)	0	1	124	0	160	198	0	166	204	0	114	140	0	81	100
West Africa to U.S. Gulf Coast (1603)	3	1,896	2,520	5	1,182	4,239	5	1,078	4,379	4	644	3,008	3	366	2,139
U.S. Gulf Coast to South Africa (0317)	0	0	41	0	16	72	0	15	85	0	14	92	0	12	104
South Africa to U.S. Gulf Coast (1703)	0	155	160	1	220	272	1	239	319	1	281	347	1	318	392
U.S. Gulf Coast to Arabian Gulf (0318)	2	1,427	1,554	3	1,037	1,784	5	928	2,773	8	319	4,380	12	78	6,938
Arabian Gulf to U.S. Gulf Coast (1803)	1	121	1,482	1	5,968	7,368	2	850	1,049	3	1,342	1,657	5	2,126	2,625
U.S. Gulf Coast to Other Med (0319)	6	4,110	4,268	9	5,968	7,368	12	7,929	9,788	12	7,370	9,098	8	4,986	6,155
Other Med to U.S. Gulf Coast (0319)	3	1,158	1,850	4	3,389	3,186	5	4,492	4,233	5	763	3,935	3	1,187	2,662
U.S. Gulf Coast to China (0321)	4	1,087	1,087	16	4,345	5,364	17	4,466	5,513	15	3,949	4,878	10	2,623	3,239
China to U.S. Gulf Coast (2103)	0	348	435	1	346	427	1	275	399	0	154	190	0	94	117
U.S. Gulf Coast to South East Asia (0322)	3	176	832	4	1,053	1,300	7	1,889	2,333	7	1,932	2,386	5	1,356	1,674
South East Asia to U.S. Gulf Coast (2203)	4	2	1,366	6	15	2,156	10	14	3,867	11	17	3,955	8	2,775	2,775
U.S. Gulf Coast to Indian Sub-Continent (0323)	1	301	463	3	963	1,189	5	1,622	2,002	10	3,071	3,791	16	5,108	6,306
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	28	221	1	97	520	2	78	875	4	53	1,657	6	32	2,756
Total - U.S. Gulf Coast Routes	171	43,425	78,229	149	46,485	76,564	168	50,974	85,836	147	45,807	77,663	136	41,307	74,258
Total - US Routes	391	84,816	193,869	321	107,537	204,354	369	119,897	230,207	354	119,065	228,221	351	117,619	232,577

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Bulk Carriers - 80,000 to 100,000 DWT (000)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	1	502	571	1	870	1,018	1	976	1,142	1	900	1,053	1	939	1,098
Northern Europe to U.S. Gulf Coast (0803)	0	300	351	1	428	744	1	424	835	1	314	770	1	217	805
U.S. Gulf Coast to Southern Europe (0309)	0	0	81	1	681	798	1	689	805	1	542	634	1	494	578
Southern Europe to U.S. Gulf Coast (0903)	0	0	164	1	119	1,597	1	146	1,616	1	211	1,272	1	262	1,159
U.S. Gulf Coast to Japan (0310)	0	0	0	0	750	877	0	769	899	0	536	627	0	330	386
Japan to U.S. Gulf Coast (1003)	0	0	0	0	109	128	0	106	134	0	69	81	0	48	56
U.S. Gulf Coast to Australia/New Zealand (0511)	0	0	0	0	84	98	0	131	134	0	216	252	0	331	397
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	217	254	0	254	274	0	270	316	0	297	347
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	861	1,033	2	1,072	1,323	2	1,022	1,261	2	838	1,054
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	14	16	0	15	17	0	14	17	0	14	17
U.S. Gulf Coast to South America East Coast (0513)	0	0	0	0	679	794	0	592	693	0	342	400	0	147	171
South America East Coast to U.S. Gulf Coast (1303)	0	0	80	1	782	915	1	710	831	1	528	617	0	423	495
U.S. Gulf Coast to South America West Coast (0516)	0	0	0	0	9	10	0	8	10	0	4	5	0	2	2
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	27	31	0	24	28	0	12	14	0	5	5
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	44	54	0	40	47	0	15	17	0	4	4
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	14	16	0	6	15	0	9	10	0	9	10
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	14	16	0	12	15	0	6	7	0	3	3
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	470	550	0	429	501	0	256	299	0	146	170
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	71	84	0	66	78	0	53	62	0	51	59
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	167	195	0	149	175	0	51	60	0	12	15
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	94	111	0	147	172	0	232	271	0	367	430
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	911	1,065	0	1,211	1,416	0	1,126	1,317	0	762	891
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	15	18	0	13	16	0	11	13	0	11	13
U.S. Gulf Coast to China (0321)	0	0	0	0	685	802	0	704	823	0	622	728	0	412	482
China to U.S. Gulf Coast (2103)	0	0	0	0	61	71	0	48	57	0	27	32	0	17	19
U.S. Gulf Coast to South East Asia (0522)	0	0	0	0	183	214	0	328	384	0	333	399	0	229	268
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	2	3	0	2	3	0	3	3	0	4	4
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	143	168	0	253	296	0	495	579	0	894	976
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	17	20	0	14	16	0	9	11	0	6	7
Total - U.S. Gulf Coast Routes	1	987	1,356	6	8,515	11,716	7	9,321	12,756	6	8,227	11,116	5	7,211	9,890
Total - 'IS Routes	6	3,792	5,948	16	20,555	29,809	18	22,677	32,912	17	22,361	32,556	17	21,827	32,219

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 100,000 to 175,000 DWT (DE)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	4	4,920	5,398	5	6,244	7,303	6	7,566	8,849	7	8,381	9,802	8	9,445	11,046
Northern Europe to U.S. Gulf Coast (0803)	3	0	5,439	4	55	7,120	5	54	8,636	5	38	9,556	6	23	10,769
U.S. Gulf Coast to Southern Europe (0309)	1	0	108	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0903)	1	0	1,251	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	9	6,886	7,079	6	4,290	5,018	6	4,226	4,942	4	2,552	2,984	2	1,434	1,678
Japan to U.S. Gulf Coast (1003)	0	0	140	0	0	74	0	0	4,735	0	0	44	0	0	25
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	124	140	0	130	152	0	140	163	0	138	161	0	122	143
U.S. Gulf Coast to Far East NIC's (0312)	1	319	341	1	350	432	1	377	466	1	429	530	1	459	567
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	0	100	123	0	115	197	0	97	187	0	72	119	0	49	59
South America East Coast to U.S. Gulf Coast (1303)	0	256	269	0	408	477	0	386	452	0	245	287	0	123	143
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	85	99	0	74	87	0	26	30	0	6	8
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	1	1	0	1	1	0	1	2	0	1	2
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	174	204	0	159	186	0	95	111	0	54	63
U.S. Gulf Coast to South Africa (0317)	1	255	1,429	0	189	221	0	172	202	0	81	95	0	33	38
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	23	27	0	18	21	0	9	10	0	5	6
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	0	131	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	19	22	0	13	16	0	19	23	0	26	30
U.S. Gulf Coast to South East Asia (0322)	1	370	1,088	1	1,342	1,570	3	2,494	2,917	3	2,402	2,809	2	1,447	1,693
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	21	13,230	22,955	18	13,426	22,918	21	15,778	27,187	20	14,488	26,563	18	13,228	26,269
Total - US Routes	43	25,011	55,271	38	31,318	56,274	44	35,695	65,663	43	34,324	68,298	42	32,948	70,850

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Bulk Carriers - Greater than 175,000 DWT (DF)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0303)	0	0	0	0	1,064	1,268	0	1,313	1,536	0	1,456	1,703	0	1,641	1,919
Northern Europe to U.S. Gulf Coast (0803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0809)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Gulf Coast (0303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	23	27	0	25	29	0	24	28	0	22	25
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	59	73	0	63	78	0	72	89	0	78	96
U.S. Gulf Coast to South America East Coast (0313)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	20	24	0	17	20	0	13	15	0	9	10
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	68	80	0	65	76	0	41	48	0	21	24
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	14	16	0	12	14	0	4	5	0	1	1
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	650	760	0	595	696	0	357	417	0	204	239
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	33	39	0	30	36	0	14	17	0	6	7
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	27	31	0	26	30	0	22	26	0	19	22
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	3	4	0	2	3	0	3	4	0	5	5
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	257	277	0	440	515	0	424	496	0	255	299
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	0	0	0	0	2,976	3,485	0	3,334	3,904	0	2,881	3,375	0	2,512	2,943
Total - US Routes	2	669	3,119	3	7,332	11,062	3	8,043	12,477	3	7,363	12,435	3	6,818	12,472

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Combination Carriers - Less than 20,000 DWT (EA)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Gulf Coast (0803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0309)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	0	49	150	1	36	126	1	25	117	0	10	91	0	0	65
South America East Coast to U.S. Gulf Coast (1303)	1	128	150	1	110	144	1	102	134	1	80	105	0	57	75
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	1	177	300	1	146	269	1	127	250	1	90	196	1	60	140
Total - US Routes	1	177	300	1	146	269	1	127	250	1	90	196	1	60	140

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Combination Carriers - 20,000 to 40,000 DWT (EB)
On U.S. Gulf Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Gulf Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Gulf Coast (0803)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0503)	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Gulf Coast (1003)	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	73	0	6	120	0	0	4	0	0	112	0	0	87	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	0	0	16	0	46	60	0	0	43	0	0	56	0	2	44	0	0	1	62	0
South America East Coast to U.S. Gulf Coast (1303)	0	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	31	0
U.S. Gulf Coast to South America West Coast (0314)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	0	32	195	0	52	180	0	47	168	0	35	131	0	24	94	0	30	102	0	102
Total - US Routes	1	32	456	0	61	192	0	57	181	0	43	141	0	30	102	0	30	102	0	102

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 40,000 to 80,000 DWT (EC)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	5	3,273	4,887	2	1,550	1,914	1	1,135	1,401	1	435	971	1	161	600
Northern Europe to U.S. Gulf Coast (0803)	1	497	1,245	1	449	769	0	435	563	0	316	390	0	195	241
U.S. Gulf Coast to Southern Europe (0309)	1	368	1,025	1	381	470	0	366	452	1	338	417	0	297	367
Southern Europe to U.S. Gulf Coast (0903)	1	0	984	0	0	381	0	0	366	1	0	338	0	0	297
U.S. Gulf Coast to Japan (0310)	1	634	634	1	643	794	1	621	766	1	395	488	0	231	286
Japan to U.S. Gulf Coast (0303)	0	0	87	0	0	115	0	0	111	0	0	0	0	0	42
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	1	468	484	1	505	623	1	543	670	1	622	768	1	670	827
Far East NIC's to U.S. Gulf Coast (1203)	0	0	19	0	0	28	0	0	30	0	0	34	0	0	37
U.S. Gulf Coast to South America East Coast (0313)	2	284	2,398	3	358	3,041	3	350	2,827	2	354	2,211	1	338	1,579
South America East Coast to U.S. Gulf Coast (1303)	2	2,082	2,128	2	1,794	2,214	2	1,668	2,059	1	1,304	1,610	1	931	1,150
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (0303)	0	0	75	0	0	1	0	1	1	0	0	2	0	2	3
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	77	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to U.S. Gulf Coast (1703)	0	0	274	1	97	557	0	87	722	2	30	1,033	2	7	1,361
Arabian Gulf to U.S. Gulf Coast (0318)	0	116	116	0	479	592	1	621	767	1	889	1,097	1	1,171	1,445
U.S. Gulf Coast to Arabian Gulf (1803)	0	262	262	1	374	441	1	511	631	1	468	578	0	292	363
Other Med to U.S. Gulf Coast (0319)	0	364	472	1	466	1,165	1	580	1,593	1	688	1,460	1	743	918
U.S. Gulf Coast to China (0321)	0	71	71	1	254	314	1	261	322	1	231	285	0	153	189
China to U.S. Gulf Coast (2103)	0	0	0	0	12	15	0	15	19	0	25	30	0	39	48
U.S. Gulf Coast to South East Asia (0322)	1	0	275	0	0	1,744	0	0	2,244	0	0	2,798	0	0	3,365
South East Asia to U.S. Gulf Coast (2203)	0	9	29	0	129	159	0	166	205	0	207	255	0	248	307
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	19	8,643	15,762	14	7,492	15,359	14	7,360	15,750	13	6,304	14,839	11	5,481	13,427
Total - US Routes	33	16,526	29,815	28	16,180	32,061	29	16,256	32,997	27	14,850	31,465	24	13,432	28,883

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 80,000 to 100,000 DWT (ED)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	1	642	865	1	577	675	0	420	492	0	159	341	0	58	211
Northern Europe to U.S. Gulf Coast (0803)	0	0	136	0	79	129	0	77	94	0	56	65	0	34	40
U.S. Gulf Coast to Southern Europe (0309)	0	93	173	0	195	228	0	209	244	0	220	258	0	219	256
Southern Europe to U.S. Gulf Coast (0903)	0	244	421	0	125	366	0	153	393	0	238	414	0	311	411
U.S. Gulf Coast to Japan (0310)	0	0	0	0	114	133	0	110	128	0	70	82	0	41	48
Japan to U.S. Gulf Coast (0310)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	41	41	0	194	240	0	212	261	0	236	292	0	248	306
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	0	0	415	2	63	2,069	2	62	1,923	1	63	1,504	1	60	1,074
South America East Coast to U.S. Gulf Coast (1303)	0	79	83	0	394	449	0	357	417	0	279	326	0	199	233
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	81	85	0	71	330	1	63	428	1	22	612	1	5	807
Arabian Gulf to U.S. Gulf Coast (1803)	0	81	85	0	259	303	1	335	392	1	480	561	1	632	740
U.S. Gulf Coast to Other Med (0319)	1	654	684	1	860	1,006	1	1,158	1,354	1	1,052	1,230	1	646	794
Other Med to U.S. Gulf Coast (1903)	0	209	582	1	346	825	1	431	1,111	1	512	1,009	0	557	651
U.S. Gulf Coast to China (0321)	0	0	0	0	45	52	0	46	54	0	41	48	0	27	32
China to U.S. Gulf Coast (2103)	0	0	0	0	148	174	0	179	210	0	218	255	0	280	327
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	23	27	0	29	34	0	36	43	0	44	51
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	17	20	0	13	16	0	9	11	0	6	6
Total - U.S. Gulf Coast Routes	3	2,205	3,678	5	3,498	7,023	6	3,854	7,552	6	3,492	7,051	5	3,366	5,987
Total - US Routes	7	5,089	8,448	11	8,560	15,898	11	9,199	16,824	11	9,121	16,753	11	8,688	16,358

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Combination Carriers - 100,000 to 175,000 DWT (EE)
On U.S. Gulf Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	4	2,190	5,401	1	1,115	1,858	1	1,005	1,801	1	412	1,308	0	174	808
Northern Europe to U.S. Gulf Coast (0803)	1	1,073	2,014	0	970	1,134	0	940	1,099	0	653	798	0	422	493
U.S. Gulf Coast to Southern Europe (0309)	1	0	1,887	0	22	26	0	25	30	0	28	41	0	29	54
Southern Europe to U.S. Gulf Coast (0903)	1	0	1,071	0	22	31	0	27	36	0	42	49	0	55	64
U.S. Gulf Coast to Japan (0310)	0	231	231	0	1,325	1,550	0	1,368	1,600	0	946	1,107	0	581	679
Japan to U.S. Gulf Coast (1003)	0	0	66	0	0	500	0	0	516	0	0	357	0	0	219
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	90	90	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	106	106	0	177	219	0	196	242	0	213	263	0	218	269
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	1	180	2,949	2	207	3,590	2	175	3,328	1	129	2,603	1	89	1,858
South America East Coast to U.S. Gulf Coast (1303)	0	1,284	1,353	1	1,116	1,305	1	1,037	1,213	0	811	949	0	579	677
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	2	2	0	2	2	0	3	3	0	0	5
East Africa to U.S. Gulf Coast (1503)	0	0	210	0	0	6	0	0	5	0	0	8	0	0	11
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	96	133	0	66	76	0	59	69	0	35	41	0	20	23
U.S. Gulf Coast to South Africa (0317)	0	0	155	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	286	392	1	199	654	1	178	847	1	61	1,212	2	15	1,597
Arabian Gulf to U.S. Gulf Coast (1803)	0	375	375	1	2,498	2,921	1	3,235	3,784	1	4,629	5,414	2	6,099	7,134
U.S. Gulf Coast to Other Med (0319)	0	200	205	0	382	536	0	534	666	0	479	791	1	270	857
Other Med to U.S. Gulf Coast (1903)	0	109	109	0	256	300	0	318	372	0	378	442	0	409	479
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	126	0	26	30	0	31	36	0	38	44	0	48	56
U.S. Gulf Coast to South East Asia (0322)	1	0	629	0	0	0	0	0	2	0	0	2	0	0	3
South East Asia to U.S. Gulf Coast (2203)	0	0	261	0	1	1	0	1	1	0	1	1	0	1	2
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	3	3	0	2	3	0	2	2	0	0	1
Total - U.S. Gulf Coast Routes	12	6,222	16,816	6	8,385	14,733	7	9,133	15,653	7	8,891	15,438	6	9,014	15,289

Total - US Routes

57,805

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - Greater than 175,000 DWT (EF)
On U.S. Gulf Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Gulf Coast to Northern Europe (0306)	0	0	0	0	187	219	0	170	199	0	0	82	0	0	0	0	30	35		
Northern Europe to U.S. Gulf Coast (0803)	0	0	0	0	171	200	0	166	194	0	0	141	0	0	0	0	74	87		
U.S. Gulf Coast to Southern Europe (0309)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Gulf Coast (0903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to Japan (0310)	0	0	0	0	234	273	0	241	282	0	0	195	0	0	0	0	102	120		
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	28	35	0	31	38	0	0	42	0	0	0	0	34	42		
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to South America East Coast (0313)	0	0	225	0	37	43	0	31	36	0	0	27	0	0	0	0	16	18		
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	195	228	0	181	212	0	0	166	0	0	0	0	101	118		
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to East Africa (0315)	0	0	157	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0		
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	11	13	0	10	12	0	0	7	0	0	0	0	4	4		
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	2	3	0	2	3	0	0	2	0	0	0	0	2	2		
Arabian Gulf to U.S. Gulf Coast (1803)	0	203	203	1	33	39	1	30	35	0	0	12	0	0	0	0	3	3		
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	1,132	1,324	1	1,466	1,715	1	2,098	2,454	2	2,764	3,233	2	2,764	3,233		
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	43	50	0	61	71	0	0	64	0	0	0	0	29	34		
U.S. Gulf Coast to China (0321)	0	0	0	0	37	43	0	46	54	0	0	64	0	0	0	0	59	69		
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Gulf Coast Routes	0	203	585	1	2,111	2,471	1	2,437	2,852	1	2,782	3,256	2	3,219	3,767	2	3,219	3,767		
Total - US Routes	0	203	585	1	4,624	5,410	1	5,261	6,155	1	5,895	6,897	2	6,593	7,713	2	6,593	7,713		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship Type Tankers - Less than 10,000 DWT (FA)
On U.S. Gulf Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Gulf Coast to Northern Europe (0308)	1	76	97	1	110	144	1	49	134	1	68	143	1	94	144					
Northern Europe to U.S. Gulf Coast (0803)	1	100	123	2	153	237	2	169	221	2	181	236	2	181	237					
U.S. Gulf Coast to Southern Europe (0309)	1	75	84	2	37	161	2	33	185	2	13	147	2	6	115					
Southern Europe to U.S. Gulf Coast (0903)	1	84	84	2	179	234	2	206	269	2	164	214	2	128	167					
U.S. Gulf Coast to Japan (0310)	0	17	23	0	13	16	0	12	16	0	9	12	0	6	8					
Japan to U.S. Gulf Coast (1003)	0	0	28	0	0	24	0	0	23	0	0	17	0	0	12					
U.S. Gulf Coast to Australia/New Zealand (0311)	0	5	13	0	6	8	0	5	7	0	3	4	0	1	2					
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Gulf Coast to Far East NIC's (0312)	0	9	9	0	13	16	0	12	15	0	5	6	0	1	2					
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	14	0	0	13	0	0	5	0	0	2					
U.S. Gulf Coast to South America East Coast (0313)	6	393	813	9	521	737	11	727	950	22	1,374	1,797	37	2,347	3,067					
South America East Coast to U.S. Gulf Coast (1303)	14	1,899	2,139	20	1,632	2,133	26	1,517	2,752	49	1,187	5,203	83	847	8,884					
U.S. Gulf Coast to South America West Coast (0314)	1	67	154	3	83	311	4	112	414	6	199	614	7	295	801					
South America West Coast to U.S. Gulf Coast (1403)	2	302	302	5	501	654	7	666	871	11	988	1,291	14	1,288	1,683					
U.S. Gulf Coast to East Africa (0315)	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0					
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Gulf Coast to West Africa (0316)	0	2	4	0	2	3	0	3	4	0	4	5	0	5	6					
West Africa to U.S. Gulf Coast (1603)	0	0	15	0	2	14	0	3	17	0	4	24	0	5	27					
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	1	1	0	1	1	0	0	1	0	0	0					
U.S. Gulf Coast to Arabian Gulf (0318)	0	4	15	0	4	5	0	4	5	0	4	5	0	3	3					
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Gulf Coast to Other Med (0319)	0	0	23	0	0	63	1	0	82	1	0	111	0	0	145					
Other Med to U.S. Gulf Coast (1903)	1	162	167	2	211	276	3	274	358	4	372	487	5	487	637					
U.S. Gulf Coast to China (0321)	0	7	7	0	10	14	0	13	17	1	19	24	1	26	33					
China to U.S. Gulf Coast (2103)	0	0	0	0	2	3	0	2	2	0	1	1	0	0	0					
U.S. Gulf Coast to South East Asia (0322)	0	8	23	0	9	12	0	15	19	1	28	36	1	49	64					
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	9	11	0	630	13	0	770	15	0	889	17	0	977					
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	8	8	10	459	600	12	562	734	14	649	848	16	713	932					
Total - U.S. Gulf Coast Routes	33	3,217	4,162	69	3,948	6,311	86	4,383	7,878	129	5,269	12,120	188	6,482	17,950					
Total - US Routes	54	4,432	6,566	95	5,659	9,172	115	6,360	11,192	163	7,674	16,272	233	9,406	23,421					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - 10,000 to 40,000 DWT (FB)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	8	2,735	2,832	11	3,647	4,767	8	2,601	3,400	10	3,394	4,437	12	4,099	5,358
Northern Europe to U.S. Gulf Coast (0803)	9	2,156	3,432	12	2,563	8,040	9	2,679	5,735	11	3,435	7,484	14	4,437	9,037
U.S. Gulf Coast to Southern Europe (0309)	6	1,513	1,745	5	1,749	1,563	6	1,745	1,785	5	1,785	1,416	4	1,112	1,106
Southern Europe to U.S. Gulf Coast (0903)	4	941	1,443	4	1,339	1,751	4	1,532	2,003	3	1,216	1,589	3	950	1,261
U.S. Gulf Coast to Japan (0310)	9	2,110	2,696	4	1,314	1,717	4	1,416	1,849	4	1,270	1,660	4	1,111	1,453
Japan to U.S. Gulf Coast (1003)	3	239	679	1	33	503	1	37	541	1	29	486	1	27	425
U.S. Gulf Coast to Australia/New Zealand (0311)	2	216	498	1	240	314	1	234	305	1	180	235	2	155	199
Australia/New Zealand to U.S. Gulf Coast (1103)	0	74	96	0	11	61	0	14	30	0	30	46	0	60	78
U.S. Gulf Coast to Far East NIC's (0312)	10	1,455	2,682	13	3,089	3,814	24	5,594	6,907	45	10,514	12,980	78	18,097	22,342
Far East NIC's to U.S. Gulf Coast (1203)	3	37	801	5	0	1,304	8	0	2,361	15	0	4,437	27	0	7,638
U.S. Gulf Coast to South America East Coast (0313)	21	2,897	8,882	26	2,832	9,722	25	3,685	9,103	19	3,038	7,121	14	3,354	5,084
South America East Coast to U.S. Gulf Coast (1303)	14	7,882	7,882	17	7,385	9,653	16	6,865	8,974	12	5,370	7,020	9	3,834	5,012
U.S. Gulf Coast to South America West Coast (0314)	2	317	1,041	5	397	2,003	6	564	2,658	9	820	3,918	12	1,314	5,090
South America West Coast to U.S. Gulf Coast (1403)	4	1,523	1,523	8	2,278	2,978	10	3,024	3,953	15	4,457	5,826	20	5,790	7,569
U.S. Gulf Coast to East Africa (0315)	1	5	247	0	4	5	0	4	5	0	4	5	0	3	14
East Africa to U.S. Gulf Coast (1503)	1	0	180	0	0	4	0	0	4	0	0	3	0	3	14
U.S. Gulf Coast to West Africa (0316)	0	98	150	1	205	268	1	208	273	1	165	216	1	112	147
West Africa to U.S. Gulf Coast (1603)	1	85	396	2	112	722	2	132	733	1	165	581	1	200	375
U.S. Gulf Coast to South Africa (0317)	1	168	385	1	215	282	1	198	259	0	140	183	0	99	130
South Africa to U.S. Gulf Coast (1703)	1	67	261	1	20	182	1	22	167	0	29	118	0	39	84
U.S. Gulf Coast to Arabian Gulf (0318)	2	153	458	33	410	7,267	31	311	6,845	12	310	2,731	6	315	1,318
Arabian Gulf to U.S. Gulf Coast (1803)	3	810	810	48	11,779	15,398	46	11,095	14,503	18	4,426	5,786	9	2,137	2,794
U.S. Gulf Coast to Other Med (0319)	2	277	505	3	625	918	3	841	1,189	5	1,398	1,828	8	2,157	2,819
Other Med to U.S. Gulf Coast (1903)	2	918	935	4	1,231	1,610	5	1,596	2,087	7	2,173	3,207	11	2,843	4,946
U.S. Gulf Coast to China (0321)	0	54	54	1	87	1,263	1	116	226	1	183	239	2	273	357
China to U.S. Gulf Coast (2103)	1	218	218	5	805	1,052	5	691	904	5	440	558	7	289	1,430
U.S. Gulf Coast to South East Asia (0322)	4	177	762	1	195	255	1	169	221	1	202	264	2	275	359
South East Asia to U.S. Gulf Coast (2203)	3	487	573	1	50	192	1	46	166	1	48	198	1	54	270
U.S. Gulf Coast to Indian Sub-Continent (0323)	1	12	179	3	11	736	3	8	848	4	2	958	4	0	1,031
Indian Sub-Continent to U.S. Gulf Coast (2303)	1	239	239	5	803	1,049	5	937	1,225	6	1,059	1,384	6	1,139	1,489
Total - U.S. Gulf Coast Routes	119	27,864	42,586	220	42,230	78,448	228	45,293	79,291	217	44,756	77,314	256	53,254	89,405
Total - US Routes	295	57,310	113,686	449	88,983	168,596	491	99,642	184,180	548	115,683	214,393	684	147,117	270,379

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COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - 40,000 to 80,000 DWT (FC)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	1	550	597	2	1,443	1,843	1	787	1,028	1	1,064	1,359	2	1,381	1,764
Northern Europe to U.S. Gulf Coast (0803)	1	400	626	2	788	1,947	1	850	1,036	1	956	1,436	2	1,120	1,864
U.S. Gulf Coast to Southern Europe (0309)	1	522	562	1	387	494	1	347	561	1	135	445	0	58	348
Southern Europe to U.S. Gulf Coast (0905)	0	0	326	0	251	297	0	264	337	0	209	267	0	164	209
U.S. Gulf Coast to Japan (0310)	0	54	62	1	252	322	1	274	349	1	249	318	1	220	281
Japan to U.S. Gulf Coast (1003)	0	0	207	2	6	1,075	2	7	1,168	2	5	1,062	2	5	940
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	42	54	0	41	52	0	32	40	0	27	35
Australia/New Zealand to U.S. Gulf Coast (1103)	0	47	63	0	9	11	0	12	15	0	25	31	0	48	62
U.S. Gulf Coast to Far East NIC's (0312)	0	30	42	3	609	751	6	1,103	1,362	10	2,076	2,563	18	3,574	4,412
Far East NIC's to U.S. Gulf Coast (1203)	0	0	62	2	0	476	4	0	0	7	0	1,623	11	0	2,794
U.S. Gulf Coast to South America East Coast (0313)	22	642	2,616	13	1,065	1,360	16	1,344	1,741	10	841	1,074	8	637	813
South America East Coast to U.S. Gulf Coast (1303)	19	3,358	21,278	11	4,138	9,162	14	3,847	11,734	8	3,009	7,234	6	2,148	5,481
U.S. Gulf Coast to South America West Coast (0314)	1	252	626	2	739	1,681	2	1,131	2,237	3	2,242	3,312	5	4,006	5,117
South America West Coast to U.S. Gulf Coast (1403)	1	930	930	2	1,943	2,481	3	2,585	3,301	4	3,827	4,887	6	4,985	7,551
U.S. Gulf Coast to East Africa (0315)	0	0	0	1	1	1	0	1	1	0	1	1	0	1	1
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	36	46	0	37	47	0	29	37	0	20	25
West Africa to U.S. Gulf Coast (1603)	0	54	242	0	70	90	0	76	97	0	83	106	0	93	119
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	38	49	0	35	45	0	35	32	0	18	22
South Africa to U.S. Gulf Coast (1703)	0	33	62	0	60	77	0	85	108	0	130	166	0	183	234
U.S. Gulf Coast to Arabian Gulf (0318)	0	67	146	1	307	801	1	202	769	1	161	346	0	110	234
Arabian Gulf to U.S. Gulf Coast (1803)	1	125	425	3	2,213	2,827	3	2,127	2,717	1	956	1,221	1	553	706
U.S. Gulf Coast to Other Med (0319)	0	0	72	0	110	151	0	148	195	0	247	315	0	381	486
Other Med to U.S. Gulf Coast (1903)	2	1,777	1,785	3	2,521	3,220	4	3,268	4,174	6	4,448	6,737	9	5,819	10,390
U.S. Gulf Coast to China (0321)	0	65	65	0	112	143	0	139	177	1	205	262	1	286	346
China to U.S. Gulf Coast (2103)	0	0	0	0	142	181	0	122	156	0	78	99	0	48	61
U.S. Gulf Coast to South East Asia (0322)	0	60	117	0	64	82	0	49	63	0	46	59	0	53	68
South East Asia to U.S. Gulf Coast (2203)	0	54	143	0	14	108	0	13	83	0	14	78	0	15	90
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	72	0	2	3	0	1	2	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	127	163	0	148	189	0	167	213	0	179	228
Total - U.S. Gulf Coast Routes	49	9,018	31,127	48	17,470	29,894	59	19,061	34,656	58	21,257	35,323	74	26,133	44,665
Total - US Routes	86	29,704	65,984	103	46,737	78,561	121	52,707	90,542	134	61,848	104,145	166	75,131	129,619

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - 80,000 to 100,000 DWT (FD)
On U.S. Gulf Coast Routes
1975

ROUTE	1987				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	378	544	1	685	846	0	313	0	437	540	1	598	738		
Northern Europe to U.S. Gulf Coast (0803)	1	1,086	1,491	2	1,048	2,312	1	1,019	1	753	1,475	2	487	2,017		
U.S. Gulf Coast to Southern Europe (0509)	1	639	674	0	359	443	0	322	0	125	154	0	54	66		
Southern Europe to U.S. Gulf Coast (0503)	1	0	880	0	0	427	0	0	0	0	149	0	0	64		
U.S. Gulf Coast to Japan (0310)	0	123	173	0	112	138	0	114	0	93	114	0	72	175		
Japan to U.S. Gulf Coast (1003)	1	0	259	1	0	272	1	63	0	33	225	0	0	0		
U.S. Gulf Coast to Australia/New Zealand (0311)	1	58	86	0	75	93	0	7	0	16	40	0	17	21		
U.S. Gulf Coast to Australia/New Zealand to U.S. Gulf Coast (1103)	1	427	641	1	6	751	1	21	1	39	329	0	31	172		
U.S. Gulf Coast to Far East NIC's (0312)	0	0	93	0	11	14	0	0	0	0	48	0	67	85		
Far East NIC's to U.S. Gulf Coast (1203)	18	0	187	0	0	36	0	130	0	61	125	0	21	216		
U.S. Gulf Coast to South America East Coast (0313)	19	8,986	8,376	8	103	2,833	7	7,653	6	5,987	2,634	6	4,274	1,471		
South America East Coast to U.S. Gulf Coast (1303)	0	0	31,599	8	8,232	10,183	7	183	6	371	7,391	4	668	5,277		
U.S. Gulf Coast to South America West Coast (0314)	0	0	131	0	119	146	0	0	0	0	458	1	5,207	6,884		
South America West Coast to U.S. Gulf Coast (1403)	0	1,000	1,000	0	2,055	2,538	0	2,736	0	4,055	5,007	0	0	0		
U.S. Gulf Coast to East Africa (0315)	0	0	96	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Gulf Coast (1503)	0	0	360	0	0	0	0	0	0	0	636	1	0	807		
U.S. Gulf Coast to West Africa (0316)	2	1,386	474	0	0	370	0	2,425	3	3,336	4,118	4	4,232	5,225		
West Africa to U.S. Gulf Coast (1603)	0	0	2,686	0	0	2,393	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	63	78	0	89	0	137	169	0	193	238		
South Africa to U.S. Gulf Coast (1703)	0	0	352	0	41	146	0	25	0	19	189	0	10	190		
U.S. Gulf Coast to Arabian Gulf (0318)	2	433	1,467	1	492	607	1	618	1	639	789	1	642	792		
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	182	0	0	207	0	0	0	0	361	1	0	468		
U.S. Gulf Coast to Other Med (0319)	3	2,490	2,490	5	3,868	4,775	7	5,001	9	6,754	8,338	12	8,755	10,808		
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	17	21	0	21	0	31	38	0	42	52		
U.S. Gulf Coast to China (0321)	0	0	157	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Gulf Coast (2103)	0	0	93	0	5	20	0	3	0	2	22	0	1	24		
U.S. Gulf Coast to South East Asia (0322)	2	217	984	0	160	197	0	167	0	178	219	0	199	245		
South East Asia to U.S. Gulf Coast (2203)	0	0	81	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Gulf Coast Routes	54	17,222	55,558	31	19,389	29,826	31	20,911	30	23,064	32,994	32	25,649	36,592		
Total - US Routes	95	43,275	112,339	63	44,251	78,020	65	48,056	66	52,550	89,900	70	58,172	98,715		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	1	0	1,371	1	96	1,048	1	45	1,016	0	63	738	0	85	456
Northern Europe to U.S. Gulf Coast (0803)	1	1,433	2,265	1	1,448	1,717	1	1,423	1,665	1	1,033	1,209	0	638	746
U.S. Gulf Coast to Southern Europe (0309)	1	0	960	0	55	65	0	50	58	0	19	23	0	8	10
Southern Europe to U.S. Gulf Coast (0903)	2	0	2,338	0	0	211	0	0	189	0	0	73	0	0	32
U.S. Gulf Coast to Japan (0310)	1	0	466	0	19	22	0	19	23	0	16	18	0	12	14
Japan to U.S. Gulf Coast (1003)	1	0	628	0	0	33	0	0	34	0	0	27	0	0	21
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	13	13	15	0	11	13	0	6	7	0	3	4
Australia/New Zealand to U.S. Gulf Coast (1103)	1	313	404	1	1	1	0	1	1	0	2	3	0	4	5
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	8	0	9,553	4	0	8,334	4	0	7,748	3	3,521	6,040	2	0	4,327
South America East Coast to U.S. Gulf Coast (1303)	5	4,047	14,239	3	4,841	5,662	3	4,501	5,264	2	2,728	4,118	1	2,514	2,940
U.S. Gulf Coast to South America West Coast (0314)	0	0	600	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	600	244	0	1,383	1,617	0	1,840	2,153	0	0	3,191	0	3,557	4,160
U.S. Gulf Coast to East Africa (0315)	0	0	390	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	3,165	2	0	3,208	2	0	4,050	3	0	5,632	4	0	7,181
U.S. Gulf Coast to West Africa (0316)	10	10,122	16,655	10	14,781	17,288	13	18,661	21,866	18	25,949	30,349	22	33,087	38,498
West Africa to U.S. Gulf Coast (1603)	1	0	1,003	7	0	11,074	10	0	15,922	16	0	24,975	22	0	35,343
U.S. Gulf Coast to South Africa (0317)	1	757	757	6	7,479	8,748	8	10,753	12,577	13	16,867	19,728	18	23,869	27,917
South Africa to U.S. Gulf Coast (1703)	1	0	825	0	0	636	0	0	12,821	1	0	1,136	1	0	1,445
U.S. Gulf Coast to Arabian Gulf (0318)	2	959	3,752	1	1,991	2,328	2	2,569	3,005	2	3,553	4,156	3	4,582	5,340
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	1	0	3,139	0	611	714	0	789	923	1	1,065	1,246	1	1,379	1,613
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	1	0	436	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	259	0	0	190	0	0	188	0	0	188	0	0	202
South East Asia to U.S. Gulf Coast (2203)	2	1,848	1,946	1	1,124	1,315	1	1,114	1,302	1	1,117	1,306	1	1,198	1,401
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	41	20,080	65,433	36	33,863	64,228	45	41,777	78,778	60	55,959	104,182	77	70,936	131,893

Total - US Routes

183,327

238,940

143,821

179,040

106,191

165,146

85,252

153,437

48,330

48,330

302,855

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 175,000 to 250,000 DWT (FF)
On U.S. Gulf Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Gulf Coast to Northern Europe (0308)	0	0	0	0	0	267	0	0	0	0	0	259	0	0	0	0	0	0		
Northern Europe to U.S. Gulf Coast (0303)	0	0	0	0	0	0	0	222	0	0	0	0	0	161	188	0	99	116		
U.S. Gulf Coast to Southern Europe (0309)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Gulf Coast (0303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to Japan (0310)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to South America East Coast (0313)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	0	0	0	992	0	1,160	1,078	0	0	721	844	0	515	602		
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Gulf Coast (0314)	0	0	0	0	0	0	0	251	294	294	0	0	372	435	435	0	485	567		
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	2,548	2,981	3,764	0	0	4,476	5,235	5,235	0	5,707	6,675		
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	1,318	1,542	2,217	0	0	2,973	3,477	3,477	0	4,207	4,921		
U.S. Gulf Coast to Arabian Gulf (0318)	1	0	1,162	1	0	1,359	1	0	1,895	1,757	1	0	2,475	2,475	2,475	2	0	3,229		
Arabian Gulf to U.S. Gulf Coast (1803)	1	571	1,457	1	1,511	1,767	1	1,954	2,285	2,285	2	0	2,752	3,218	3,218	2	3,590	4,199		
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	191	224	224	0	0	192	224	224	0	205	240		
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Gulf Coast Routes	2	1,011	3,071	2	6,980	9,522	2	8,653	11,877	3	11,646	16,096	4	14,809	20,550	4	34,000	43,005		
Total - US Routes	16	1,226	29,728	2	15,550	19,546	3	19,474	24,534	3	26,569	33,550	4	34,000	43,005	4	34,000	43,005		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - Greater than 250,000 DWT (FG)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	0	422	0	0	713	0	0	692	0	0	502	0	0	310
Northern Europe to U.S. Gulf Coast (0803)	0	588	676	0	625	731	0	606	709	0	440	515	0	272	318
U.S. Gulf Coast to Southern Europe (0309)	1	0	5,166	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0903)	0	0	275	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Gulf Coast (1003)	0	0	284	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	1	0	3,442	1	0	5,752	1	0	5,347	1	0	4,153	1	0	2,986
South America East Coast to U.S. Gulf Coast (1303)	1	6,820	6,974	2	6,963	8,144	1	6,473	7,571	1	5,064	5,922	1	3,615	4,228
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	275	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	1	2,843	4,992	1	4,771	683	0	6,024	862	2	8,379	1,199	0	10,685	1,529
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	5,560	0	0	7,046	0	0	9,800	3	12,497	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	6	0	2,395	18	74	87	0	107	125	34	167	196	44	237	277
U.S. Gulf Coast to Arabian Gulf (0318)	9	17,358	17,358	29	53,674	39,469	24	69,509	51,113	54	99,163	72,919	70	130,424	95,907
Arabian Gulf to U.S. Gulf Coast (1803)	1	0	2,024	1	0	62,776	38	0	81,297	1	0	115,980	1	0	152,543
U.S. Gulf Coast to Other Med (0319)	0	199	358	0	299	2,511	0	372	3,123	0	441	3,705	0	477	4,006
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	350	0	0	435	0	0	516	0	0	558
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	284	0	0	254	0	0	265	0	0	282	0	0	315
South East Asia to U.S. Gulf Coast (2203)	1	1,322	1,391	1	1,141	1,334	1	1,191	1,393	1	1,299	1,484	1	1,417	1,658
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	284	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	21	29,129	47,193	53	67,547	128,384	67	84,282	159,978	94	114,923	217,205	122	147,127	277,132
Total - US Routes	26	29,156	73,643	53	67,955	128,838	67	84,775	160,555	94	115,564	217,955	122	147,902	278,039

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Gas Tankers (GA)
On U.S. Gulf Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	6	6	1,399	1	26	169	1	169	30	207	24	113	0	18	53	0	0	0	0	0
Northern Europe to U.S. Gulf Coast (0803)		77	1,151	0	78	174	1	174	96	213	52	115	0	25	54	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0309)		12	801	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0903)		0	865	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)		0	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Gulf Coast (1003)		0	364	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	1	1	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)		93	179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	1	0	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)		0	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	13	96	2,439	13	144	2,018	12	248	248	1,862	445	1,617	9	445	1,617	11	751	1,684	0	0
South America East Coast to U.S. Gulf Coast (1303)	8	594	1,675	8	675	1,501	6	623	623	1,385	474	1,654	6	474	1,654	7	310	1,241	0	0
U.S. Gulf Coast to South America West Coast (0314)	1	21	320	0	1	1	0	1	1	2	1	3	0	1	3	0	2	4	0	0
South America West Coast to U.S. Gulf Coast (1403)	1	0	125	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	2	0	671	3	0	4,766	5	4,766	0	6,518	0	9,124	7	0	9,124	9	0	11,684	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	2	299	299	1	472	1,043	1	1,043	645	1,433	903	2,006	1	903	2,006	2	1,156	2,569	0	0
U.S. Gulf Coast to Other Med (0319)	2	570	756	0	109	242	1	154	154	342	260	578	1	260	578	2	398	884	0	0
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	3	0	555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	1	0	191	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	54	1,710	13,414	28	1,505	10,181	28	1,797	1,797	12,332	2,160	15,035	26	2,160	15,035	32	2,659	19,114		
Total - US Routes	70	3,540	21,365	49	5,185	22,894	56	6,747	6,747	29,175	9,384	39,007	64	9,384	39,007	86	12,788	52,852		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Vehicle Carriers (HB)
On U.S. Gulf Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	0	44	0	0	86	0	0	82	0	0	82	0	0	55	0	0	0	0	33
Northern Europe to U.S. Gulf Coast (0303)	1	70	398	1	61	677	1	58	648	1	39	434	1	23	0	0	0	0	0	259
U.S. Gulf Coast to Southern Europe (0309)	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0303)	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	7	0	1,155	4	0	1,056	3	0	1,006	3	0	800	2	0	800	2	0	0	0	558
Japan to U.S. Gulf Coast (1003)	7	115	1,020	3	92	1,020	3	88	973	3	70	773	2	49	540	0	0	0	0	540
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	3	0	318	1	0	451	2	0	619	3	0	948	0	0	0	0	0	0	0	0
South America East Coast to U.S. Gulf Coast (1303)	2	14	341	1	33	348	2	45	504	3	70	773	4	0	1,222	3	90	996	0	0
U.S. Gulf Coast to South America West Coast (0314)	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	47	0	0	78	0	0	108	0	0	103	0	0	0	0	0	0	0	92
Other Med to U.S. Gulf Coast (1903)	0	16	37	0	6	66	0	8	90	0	8	87	0	7	77	0	0	0	0	77
China to U.S. Gulf Coast (2103)	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	23	215	3,724	11	192	3,802	12	199	4,030	12	186	3,973	12	168	3,777	12	168	3,777	12	3,777
Total - US Routes	266	3,730	51,989	216	3,877	91,054	224	3,975	95,338	227	3,899	99,251	230	3,848	103,936	230	3,848	103,936	230	103,936

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - Less than 10,000 DWT (PA)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020			CAPACITY 000 TONS
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Gulf Coast to Northern Europe (0308)	1	61	85	1	80	105	1	73	96	1	94	123	1	112	146	
Northern Europe to U.S. Gulf Coast (0803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Southern Europe (0309)	0	26	26	0	15	20	0	14	18	0	5	7	0	2	3	
Southern Europe to U.S. Gulf Coast (0903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Japan (0310)	1	45	75	1	43	56	1	45	58	1	41	53	1	39	51	
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Australia/New Zealand (0311)	0	2	10	0	5	6	0	8	10	0	13	17	0	21	27	
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Far East N/C's (0312)	0	7	13	0	15	18	0	20	25	1	27	34	1	41	51	
Far East N/C's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to South America East Coast (0313)	5	207	755	3	209	273	3	285	373	5	387	506	7	577	754	
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to South America West Coast (0314)	0	17	63	0	20	26	0	27	35	1	47	61	1	67	88	
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to East Africa (0315)	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to West Africa (0316)	0	22	31	0	26	34	0	31	40	1	44	57	1	50	65	
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Arabian Gulf (0318)	0	8	22	0	14	18	1	19	25	1	32	42	1	51	67	
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Other Med (0319)	0	5	7	0	10	13	0	12	16	0	9	12	0	6	8	
Other Med to U.S. Gulf Coast (1903)	0	31	31	0	53	69	0	68	89	0	93	122	0	122	159	
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
China to U.S. Gulf Coast (2103)	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	
U.S. Gulf Coast to South East Asia (0322)	1	12	41	1	15	36	1	10	27	0	8	16	0	0	0	
South East Asia to U.S. Gulf Coast (2203)	0	18	21	0	14	18	0	10	14	0	6	8	0	3	4	
U.S. Gulf Coast to Indian Sub-Continent (0323)	1	19	67	13	25	1,674	16	31	2,047	18	56	2,365	20	91	2,598	
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	7	7	3	115	150	4	140	184	4	162	212	5	178	233	
Total - U.S. Gulf Coast Routes	11	486	1,261	24	659	2,518	28	795	3,058	33	1,006	3,636	39	1,367	4,264	
Total - US Routes	19	737	2,017	28	1,002	3,004	33	1,209	3,630	38	1,534	4,325	44	2,034	5,157	

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 10,000 to 40,000 DWT (PB)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to North America (0308)	0	0	0	0	14	19	0	0	13	17	0	22	0	20	26
Northern Europe to U.S. Gulf Coast (0303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0309)	0	0	0	0	48	62	0	0	44	0	23	30	0	11	14
Southern Europe to U.S. Gulf Coast (0303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	0	0	0	0	8	10	0	0	8	7	7	9	0	7	9
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	1	1	0	0	1	2	2	3	0	4	5
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	3	3	0	0	4	4	0	6	0	7	9
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	37	48	0	0	50	68	0	89	0	102	133
U.S. Gulf Coast to South America East Coast (0313)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	4	5	0	0	5	8	0	11	0	12	16
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	5	6	0	0	5	8	0	10	0	9	12
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	2	3	0	0	3	7	6	7	0	9	13
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	173	0	0	308	402	0	0	399	543	2	710	0	711	929
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	198	0	0	201	263	0	0	173	0	110	144	0	67	88
U.S. Gulf Coast to South East Asia (0322)	6	204	1,218	4	241	817	4	4	256	377	4	902	5	595	1,006
South East Asia to U.S. Gulf Coast (2203)	5	859	1,010	3	519	679	3	3	539	573	3	749	3	639	836
U.S. Gulf Coast to Indian Sub-Continent (0323)	3	57	587	1	76	182	1	1	97	174	1	240	2	289	378
Indian Sub-Continent to U.S. Gulf Coast (2303)	3	181	865	1	201	262	1	1	234	265	1	346	2	265	346
Total - U.S. Gulf Coast Routes	17	1,671	4,050	9	1,673	2,771	10	10	1,840	2,195	10	3,290	12	2,778	4,032
Total - US Routes	40	4,148	10,671	22	4,008	7,064	23	23	4,347	5,022	25	8,575	30	6,171	10,414

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 40,000 to 80,000 DWT (PC)
On U.S. Gulf Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Gulf Coast to Northern Europe (0308)	1	749	850	2	1,022	1,306	1	698	891	2	924	1,180	2	1,130	1,443					
Northern Europe to U.S. Gulf Coast (0803)	1	335	554	1	430	1,051	1	505	717	1	658	949	1	828	1,161					
U.S. Gulf Coast to Southern Europe (0309)	1	996	1,065	1	497	634	1	446	569	0	174	224	0	75	175					
Southern Europe to U.S. Gulf Coast (0903)	1	109	699	1	142	461	1	161	414	0	127	163	0	99	127					
U.S. Gulf Coast to Japan (0310)	1	390	467	1	193	246	1	215	275	0	201	257	0	181	231					
Japan to U.S. Gulf Coast (1003)	1	60	378	0	8	200	0	9	223	0	7	209	0	6	188					
U.S. Gulf Coast to Australia/New Zealand (0311)	1	69	125	0	78	99	0	70	89	0	44	60	0	28	117					
Australia/New Zealand to U.S. Gulf Coast (1103)	0	35	42	0	5	30	0	7	27	0	14	18	0	28	36					
U.S. Gulf Coast to Far East NIC's (0312)	0	37	139	0	75	92	0	127	157	1	224	277	1	381	471					
Far East NIC's to U.S. Gulf Coast (1203)	1	10	237	0	0	163	1	0	276	1	0	499	2	0	890					
U.S. Gulf Coast to South America East Coast (0313)	8	873	7,202	11	879	8,273	11	1,148	8,214	12	1,097	8,926	13	1,384	9,760					
South America East Coast to U.S. Gulf Coast (1303)	7	6,024	6,702	10	6,220	7,944	10	6,176	7,887	10	6,711	8,571	11	7,338	9,372					
U.S. Gulf Coast to South America West Coast (0314)	0	114	220	0	220	281	0	328	419	1	599	752	1	1,028	1,313					
South America West Coast to U.S. Gulf Coast (1403)	0	159	159	0	48	233	0	55	347	1	56	623	1	53	1,087					
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Gulf Coast to West Africa (0316)	0	24	70	0	50	64	0	50	64	0	38	48	0	22	33					
West Africa to U.S. Gulf Coast (1603)	0	35	159	0	41	160	0	46	160	0	55	119	0	64	82					
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
South Africa to U.S. Gulf Coast (1703)	0	8	56	0	15	19	0	21	27	0	32	41	0	0	58					
U.S. Gulf Coast to Arabian Gulf (0318)	1	74	373	4	171	2,200	4	156	2,184	2	201	1,154	1	271	798					
Arabian Gulf to U.S. Gulf Coast (1803)	1	656	656	9	3,511	4,484	9	3,485	4,450	5	1,842	2,352	3	1,273	1,626					
U.S. Gulf Coast to Other Med (0319)	0	64	154	0	144	184	0	196	251	1	338	432	1	530	677					
Other Med to U.S. Gulf Coast (1903)	0	444	444	0	630	805	0	817	1,043	0	1,112	1,420	0	1,455	1,858					
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
China to U.S. Gulf Coast (2103)	0	0	77	0	36	45	0	31	39	0	19	25	0	12	15					
U.S. Gulf Coast to South East Asia (0322)	1	0	321	0	42	131	0	45	126	0	66	122	0	105	134					
South East Asia to U.S. Gulf Coast (2203)	1	106	430	0	131	167	0	126	160	0	122	155	0	127	171					
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	89	0	13	16	0	16	21	0	29	37	0	48	62					
Indian Sub-Continent to U.S. Gulf Coast (2303)	2	0	623	0	32	113	0	37	147	1	42	262	1	45	436					
Total - U.S. Gulf Coast Routes	30	11,361	22,291	43	14,631	29,402	42	14,972	29,180	40	14,723	28,865	44	16,558	32,261					
Total - US Routes	76	26,612	57,511	96	35,219	74,004	104	38,712	80,731	113	42,351	90,463	133	49,436	107,039					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 80,000 to 100,000 DWT (PD)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	234	261	0	438	541	0	254	358	0	315	534	1	391	751
Northern Europe to U.S. Gulf Coast (0303)	0	143	265	1	253	575	0	308	380	0	460	568	1	646	798
U.S. Gulf Coast to Southern Europe (0309)	0	128	128	0	164	203	0	147	182	0	57	71	0	25	30
Southern Europe to U.S. Gulf Coast (0303)	0	0	173	0	25	288	0	28	258	0	22	100	0	18	43
U.S. Gulf Coast to Japan (0310)	0	58	86	0	68	84	0	75	93	0	69	85	0	61	75
Japan to U.S. Gulf Coast (1003)	0	0	175	0	1	162	0	2	177	0	1	162	0	1	143
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	14	17	0	12	15	0	8	10	0	5	6
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	1	1	0	1	1	0	3	3	0	5	6
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	13	16	0	22	28	0	40	49	0	67	83
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	5	0	6,846	9	155	11,699	9	203	11,627	10	194	12,593	11	244	13,726
South America East Coast to U.S. Gulf Coast (1303)	3	6,003	6,713	7	7,170	8,852	7	7,126	8,797	7	7,718	9,528	8	8,412	10,386
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	39	48	0	58	72	0	104	128	0	181	224
South America West Coast to U.S. Gulf Coast (1403)	0	83	92	0	32	40	0	37	46	0	38	47	0	36	44
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	89	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	9	11	0	9	11	0	7	8	0	4	5
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	7	9	0	8	10	0	10	12	0	11	14
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	16	19	0	22	27	0	34	42	0	48	60
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	84	0	30	37	0	28	34	0	36	44	0	48	59
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	620	765	0	615	759	0	325	401	0	225	277
U.S. Gulf Coast to Other Med (0319)	0	0	84	0	25	153	0	35	197	0	60	266	0	84	345
Other Med to U.S. Gulf Coast (1903)	1	627	627	1	967	1,194	1	1,250	1,544	2	1,688	2,084	2	2,189	2,702
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	1	0	220	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	1	0	428	0	7	9	0	5	7	0	4	4	0	3	3
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	12	7,276	16,272	19	10,055	24,722	19	10,247	24,624	21	11,190	26,740	23	12,713	29,780
Total - US Routes	20	11,023	26,428	31	17,832	40,945	33	19,356	43,702	38	22,862	50,894	46	27,968	60,826

COMPARISON OF SHIP YEARS CARGO AND CAPACITY
For Shipshape Product Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Gulf Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S.-U.S. Gulf Coast to Northern Europe (0308)	0	0	108	0	46	53	0	23	27	0	0	31	0	0	34	0	0	40		
Northern Europe to U.S. Gulf Coast (0803)	0	0	0	0	31	36	0	39	45	0	0	71	0	0	88	0	0	103		
U.S.-U.S. Gulf Coast to Southern Europe (0309)	0	202	208	0	113	132	0	101	118	0	0	46	0	0	17	0	0	20		
Southern Europe to U.S. Gulf Coast (0903)	0	0	216	0	0	130	0	0	116	0	0	45	0	0	0	0	0	19		
U.S.-U.S. Gulf Coast to Japan (0310)	0	0	0	0	6	7	0	7	8	0	0	7	0	0	5	0	0	6		
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S.-U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S.-U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S.-U.S. Gulf Coast to South America East Coast (0313)	0	0	431	2	0	3,028	2	0	2,971	2	0	3,049	2	0	0	0	0	0		
South America East Coast to U.S. Gulf Coast (1303)	0	307	323	1	1,335	1,562	1	1,310	1,533	1	1,345	1,573	1	1,393	1,629	1	1,393	1,629		
U.S.-U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S.-U.S. Gulf Coast to East Africa (0315)	0	0	108	0	4	5	0	5	6	0	5	6	0	5	5	0	5	5		
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S.-U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S.-U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S.-U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	1,896	2,205	0	2,711	3,171	0	4,252	4,973	0	6,018	7,008	0	6,018	7,008		
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S.-U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	216	253	0	276	323	0	360	421	0	446	522	0	446	522		
U.S.-U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S.-U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S.-U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Gulf Coast Routes	1	509	1,394	3	3,637	7,411	3	4,472	8,318	3	6,095	10,223	3	8,005	12,541	3	8,005	12,541		
Total - US Routes	2	1,428	3,457	4	7,765	12,240	4	9,967	14,746	5	14,280	19,796	5	19,276	25,724	5	19,276	25,724		

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 175,000 to 250,000 DWT (PF)
On U.S. Gulf Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Gulf Coast (0803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0309)	0	0	0	0	17	20	0	0	16	0	0	7	0	3	3
Southern Europe to U.S. Gulf Coast (0903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	47	54	0	43	0	0	34	40	0	24	28
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	332	389	0	478	0	0	750	877	0	1,061	1,241
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	11	13	0	14	0	0	17	19	0	18	21
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	0	0	0	0	408	477	0	551	644	0	806	943	0	1,105	1,293
Total - US Routes	0	0	0	0	1,005	1,175	0	1,365	1,596	0	2,036	2,381	0	2,797	3,271

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Other Ships (XX)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	4	46	1,731	0	60	189	0	64	208	0	64	225	0	60	234
Northern Europe to U.S. Gulf Coast (0803)	3	100	1,735	0	155	191	0	171	211	0	185	228	0	192	238
U.S. Gulf Coast to Southern Europe (0309)	1	256	419	1	233	287	1	216	267	0	124	153	0	68	131
Southern Europe to U.S. Gulf Coast (0903)	1	12	196	0	16	131	0	22	122	0	33	70	0	49	60
U.S. Gulf Coast to Japan (0310)	1	1	189	0	1	43	0	1	60	1	99	95	1	1	148
Japan to U.S. Gulf Coast (1003)	2	47	241	0	45	55	0	63	78	1	99	122	1	155	191
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	35	43	0	65	80	0	141	174	0	278	343
Far East NIC's to U.S. Gulf Coast (1203)	1	0	132	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	8	186	2,000	1	242	298	2	318	393	2	467	576	3	641	816
South America East Coast to U.S. Gulf Coast (1303)	7	74	2,170	1	145	298	1	188	392	2	254	576	3	314	815
U.S. Gulf Coast to South America West Coast (0314)	0	67	81	5	63	1,100	5	70	1,136	5	71	1,242	6	72	1,279
South America West Coast to U.S. Gulf Coast (1403)	0	37	37	1	396	477	1	399	492	1	436	538	2	449	554
U.S. Gulf Coast to East Africa (0315)	1	0	432	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	1	0	333	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	4	0	0	7	0	0	11	0	0	19
U.S. Gulf Coast to South Africa (0317)	0	0	35	0	0	0	0	0	0	0	0	0	0	0	7
South Africa to U.S. Gulf Coast (1703)	0	1	24	0	1	2	0	2	3	0	4	4	0	6	347
U.S. Gulf Coast to Arabian Gulf (0318)	1	115	518	0	103	127	0	145	179	1	207	256	1	281	300
Arabian Gulf to U.S. Gulf Coast (1303)	1	0	220	0	0	73	0	0	103	0	0	147	0	0	200
U.S. Gulf Coast to Other Med (0319)	1	17	424	0	23	28	0	31	38	0	30	38	0	22	27
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	0	6	35	0	9	17	0	13	25	0	15	38	0	15	54
China to U.S. Gulf Coast (2103)	0	2	13	0	5	6	0	7	9	0	11	14	0	16	20
U.S. Gulf Coast to South East Asia (0322)	0	1	510	0	9	11	0	12	15	0	15	19	0	14	18
South East Asia to U.S. Gulf Coast (2203)	2	0	0	0	0	12	0	1	17	0	1	21	0	1	20
U.S. Gulf Coast to Indian Sub-Continent (0323)	1	12	421	0	10	12	0	10	12	0	6	21	0	2	4
Indian Sub-Continent to U.S. Gulf Coast (2303)	1	0	291	0	1	9	0	1	8	0	2	5	0	2	3
Total - U.S. Gulf Coast Routes	40	984	12,777	12	1,541	3,413	13	1,799	3,856	16	2,163	4,556	19	2,658	5,528
Total - US Routes	121	4,312	39,929	104	8,033	24,083	134	9,808	28,048	179	12,739	35,395	220	16,255	43,535

Northwest Coast

**COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shiptypes
On U.S. Northwest Coast Routes**

U.S. Northwest Coast Routes															
ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	6	619	1,465	3	856	1,475	4	950	1,736	5	1,025	2,208	7	1,093	2,784
Northern Europe to U.S. Northwest Coast (0805)	9	343	2,417	2	442	1,158	3	479	1,337	3	554	1,332	3	664	1,755
U.S. Northwest Coast to Southern Europe (0509)	6	538	1,546	2	550	1,715	1	700	908	2	1,006	1,301	2	1,318	1,752
Southern Europe to U.S. Northwest Coast (0905)	3	121	1,024	1	85	353	1	102	437	1	126	611	2	149	784
U.S. Northwest Coast to Japan (0510)	103	24,587	41,257	113	39,414	57,791	114	40,523	59,313	98	35,554	52,222	76	28,519	42,390
Japan to U.S. Northwest Coast (1005)	78	1,929	19,713	96	3,457	29,958	99	3,895	31,298	91	4,558	30,652	78	5,768	28,703
U.S. Northwest Coast to Australia/New Zealand (0511)	7	867	2,165	3	3,358	2,444	4	1,585	2,704	7	1,786	3,043	5	2,109	2,957
Australia/New Zealand to U.S. Northwest Coast (1105)	10	2,257	3,658	6	3,233	4,024	6	3,518	4,497	7	3,419	4,803	8	3,020	4,864
U.S. Northwest Coast to Far East NIC's (0512)	39	11,322	13,723	73	28,630	37,657	113	42,966	56,320	167	58,758	78,144	230	77,057	103,611
Far East NIC's to U.S. Northwest Coast (1205)	37	2,092	14,744	70	1,989	37,498	107	2,392	56,887	162	3,145	82,237	228	4,301	112,349
U.S. Northwest Coast to South America East Coast (0513)	19	214	6,435	8	478	4,208	7	517	3,808	5	515	2,637	5	678	2,515
South America East Coast to U.S. Northwest Coast (1305)	9	1,594	3,048	3	1,504	1,915	3	1,362	1,767	3	1,069	1,492	3	945	1,464
U.S. Northwest Coast to South America West Coast (0514)	12	1,990	18,653	0	141	1,990	0	186	250	0	192	260	1	219	297
South America West Coast to U.S. Northwest Coast (1405)	9	55	11,666	0	26	84	0	30	114	0	32	146	0	32	183
U.S. Northwest Coast to East Africa (0515)	1	0	167	0	5	6	0	6	9	0	15	21	0	29	41
East Africa to U.S. Northwest Coast (1505)	0	0	167	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	61	0	4	9	0	6	11	0	10	21	0	16	32
West Africa to U.S. Northwest Coast (1605)	0	0	61	0	1	2	0	1	1	0	1	2	0	2	2
U.S. Northwest Coast to South Africa (0517)	0	2	85	0	146	202	0	153	211	0	171	235	0	160	219
South Africa to U.S. Northwest Coast (1705)	0	2	69	0	7	9	0	6	8	0	5	7	0	4	7
U.S. Northwest Coast to Arabian Gulf (0518)	10	1,765	3,812	1	311	428	2	328	471	2	326	487	3	471	678
Arabian Gulf to U.S. Northwest Coast (1805)	4	402	0	1	22	82	1	28	100	1	29	110	1	29	131
U.S. Northwest Coast to Other Med (0519)	11	894	2,866	2	1,087	1,353	3	1,457	1,789	3	1,510	1,891	2	1,373	1,739
Other Med to U.S. Northwest Coast (1905)	1	11	371	0	104	104	0	1	137	0	2	146	0	2	138
U.S. Northwest Coast to China (0521)	10	967	4,008	6	5,915	8,020	9	9,821	13,239	17	17,831	24,042	25	26,643	35,993
China to U.S. Northwest Coast (2105)	9	29	3,630	10	5,966	5,691	17	782	5,691	31	1,052	9,051	46	14,604	14,604
U.S. Northwest Coast to South East Asia (0522)	15	299	5,493	10	3,448	5,500	18	4,999	7,545	25	6,848	10,011	30	9,205	13,212
South East Asia to U.S. Northwest Coast (2205)	11	1,711	4,856	22	1,974	6,775	39	2,137	9,530	56	2,485	12,499	66	3,023	16,159
U.S. Northwest Coast to Indian Sub-Continent (0523)	5	686	1,466	11	3,877	4,900	12	4,618	5,851	13	5,808	7,403	10	6,715	8,537
Indian Sub-Continent to U.S. Northwest Coast (2305)	3	3	1,215	8	82	3,006	9	103	3,477	10	133	3,953	10	161	3,683
Total - U.S. Northwest Coast Routes	429	53,291	171,383	451	99,637	213,594	573	123,632	269,446	707	147,987	332,244	842	175,106	401,663
Total - US Routes	3,735	598,926	1,565,968	3,494	947,703	1,882,644	4,031	1,104,854	2,191,823	4,870	1,328,408	2,664,842	6,128	1,623,171	3,310,127

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype General Cargo - Greater than 10,000 DWT (AA)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S., Northwest Coast to Northern Europe (0508)	0	46	70	0	68	89	0	82	107	0	101	132	0	114	149	0	114	149		
Northern Europe to U.S., Northwest Coast (0805)	0	24	63	0	17	86	0	19	103	0	21	127	0	22	143	0	22	143		
U.S., Northwest Coast to Southern Europe (0509)	0	4	19	0	3	8	0	5	9	0	7	10	0	10	12	0	10	12		
Southern Europe to U.S., Northwest Coast (0905)	0	2	13	0	2	5	0	2	3	0	3	4	0	3	4	0	3	4		
U.S., Northwest Coast to Japan (0510)	3	472	531	2	572	747	2	569	744	2	528	690	2	440	575	2	440	575		
Japan to U.S., Northwest Coast (1005)	2	310	765	2	340	784	2	366	781	2	359	724	2	366	604	2	366	604		
U.S., Northwest Coast to Australia/New Zealand (0511)	0	90	132	0	99	130	0	140	183	0	208	272	0	296	387	0	296	387		
Australia/New Zealand to U.S., Northwest Coast (1105)	0	7	33	0	7	10	0	8	14	0	9	20	0	9	29	0	9	29		
U.S., Northwest Coast to Far East NIC's (0512)	1	111	244	1	256	334	2	419	548	3	840	1,098	6	1,540	2,013	3	1,540	2,013		
Far East NIC's to U.S., Northwest Coast (1205)	1	69	298	1	51	495	1	58	811	3	68	1,624	5	83	2,977	5	83	2,977		
U.S., Northwest Coast to South America East Coast (0513)	1	43	198	0	32	42	0	46	60	0	89	116	1	154	201	1	154	201		
South America East Coast to U.S., Northwest Coast (1305)	1	26	180	0	18	38	0	15	54	0	11	105	1	10	182	1	10	182		
U.S., Northwest Coast to South America West Coast (0514)	2	19	400	0	20	27	0	31	41	0	47	61	0	63	78	0	63	78		
South America West Coast to U.S., Northwest Coast (1405)	2	13	474	0	2	25	0	3	39	0	3	58	0	3	78	0	3	78		
U.S., Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	1	1	0	2	2	0	2	2		
East Africa to U.S., Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S., Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	1	1		
West Africa to U.S., Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	1	1		
U.S., Northwest Coast to South Africa (0517)	0	0	0	0	0	1	0	1	1	0	1	1	0	1	1	0	1	1		
South Africa to U.S., Northwest Coast (1705)	0	1	26	0	1	10	0	8	10	0	9	12	0	8	11	0	8	11		
U.S., Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	1	0	1	1	0	1	1	0	1	1	0	1	1		
Arabian Gulf to U.S., Northwest Coast (1805)	0	1	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S., Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S., Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S., Northwest Coast to China (0521)	0	71	71	5	1,390	1,804	9	2,301	3,008	15	4,174	5,456	23	6,168	8,062	23	6,168	8,062		
China to U.S., Northwest Coast (2105)	0	6	114	10	15	2,570	16	20	4,285	29	27	7,772	43	36	11,465	43	36	11,465		
U.S., Northwest Coast to South East Asia (0522)	0	46	78	1	143	187	1	276	361	2	410	536	2	475	620	2	475	620		
South East Asia to U.S., Northwest Coast (2205)	1	11	202	1	6	352	2	7	431	3	8	1,010	4	10	1,170	4	10	1,170		
U.S., Northwest Coast to Indian Sub-Continent (0523)	0	13	17	0	23	30	0	36	47	0	64	84	0	100	131	0	100	131		
Indian Sub-Continent to U.S., Northwest Coast (2305)	1	2	173	1	2	267	2	3	411	3	4	744	4	4	1,155	4	4	1,155		
Total - U.S. Northwest Coast Routes	18	1,386	4,178	25	3,067	8,041	38	4,417	12,305	65	6,991	20,658	74	9,917	30,079	74	9,917	30,079		
Total - US Routes	337	23,476	71,839	209	28,449	56,451	263	35,612	71,071	379	47,876	102,581	525	63,438	141,863	525	63,438	141,863		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype General Cargo - (less than 10,000 DWT (AG))
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Northwest Coast (0905)	0	1	18	0	1	1	0	0	1	0	0	2	0	0	1	0	0	2		
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Northwest Coast (1005)	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Far East NIC's (0512)	0	4	5	0	6	9	0	10	15	0	19	28	1	32	47	0	0	0		
Far East NIC's to U.S. Northwest Coast (1205)	0	1	14	0	0	38	1	0	61	1	0	114	2	0	194	0	0	0		
U.S. Northwest Coast to South America East Coast (0513)	0	0	22	0	1	4	0	1	4	0	2	3	0	3	5	0	0	0		
South America East Coast to U.S. Northwest Coast (1305)	0	0	16	0	3	4	0	2	4	0	2	3	0	1	5	0	0	0		
U.S. Northwest Coast to South America West Coast (0514)	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Northwest Coast (1405)	0	1	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to China (0521)	0	0	0	0	41	61	0	69	102	0	125	185	0	0	273	0	184	273		
China to U.S. Northwest Coast (2105)	0	0	17	0	1	1	0	1	1	0	1	1	0	0	2	0	1	2		
U.S. Northwest Coast to South East Asia (0522)	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Northwest Coast (2205)	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	1	10	0	1	1	0	1	2	0	2	3	0	0	5	0	4	5		
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Northwest Coast Routes	2	12	160	1	54	121	1	86	189	2	152	340	3	228	534					
Total - US Routes	184	3,657	15,320	75	3,169	6,058	89	3,734	7,111	129	5,029	10,024	185	6,790	14,132					

Total - US Routes

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Greater than 10,000 DWT (AC)
On U.S. Northwest Coast Routes

4/24/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	2	235	365	2	418	546	3	502	656	3	585	765	3	660	863	3	660	863	3	660
Northern Europe to U.S. Northwest Coast (0805)	1	192	318	2	219	461	2	225	553	2	218	645	3	216	728	3	216	728	3	216
U.S. Northwest Coast to Southern Europe (0509)	1	154	211	1	175	228	1	226	295	2	330	431	2	426	557	2	426	557	2	426
Southern Europe to U.S. Northwest Coast (0905)	0	36	146	0	36	140	1	41	182	1	51	265	1	65	343	1	65	343	1	65
U.S. Northwest Coast to Japan (0510)	11	2,728	3,031	22	4,843	6,331	24	5,342	6,983	27	6,000	7,843	30	6,571	8,590	30	6,571	8,590	30	6,571
Japan to U.S. Northwest Coast (1005)	5	1,474	3,571	9	1,933	7,155	10	2,297	7,893	11	3,105	8,865	12	4,377	9,709	12	4,377	9,709	12	4,377
U.S. Northwest Coast to Australia/New Zealand (0511)	2	78	401	1	90	226	1	113	226	1	141	265	1	175	256	1	175	256	1	175
Australia/New Zealand to U.S. Northwest Coast (1105)	1	87	280	1	105	150	1	115	150	1	124	163	1	130	170	1	130	170	1	130
U.S. Northwest Coast to Far East NIC's (0512)	8	1,797	4,403	10	4,298	5,616	15	6,731	8,798	23	10,193	13,325	34	14,728	19,253	34	14,728	19,253	34	14,728
Far East NIC's to U.S. Northwest Coast (1205)	6	1,771	3,197	7	1,432	4,075	11	1,712	6,382	16	2,122	9,665	24	2,907	13,985	24	2,907	13,985	24	2,907
U.S. Northwest Coast to South America East Coast (0513)	0	27	27	0	50	65	0	67	87	1	10	160	1	19	271	1	19	271	1	19
South America East Coast to U.S. Northwest Coast (1305)	0	40	201	1	13	568	2	12	764	3	17	374	5	26	405	5	26	405	5	26
U.S. Northwest Coast to South America West Coast (0514)	0	8	8	0	20	26	0	18	23	0	25	374	0	26	405	0	26	405	0	26
South America West Coast to U.S. Northwest Coast (1405)	0	14	108	1	20	442	1	22	384	1	25	374	1	26	405	1	26	405	1	26
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	15	78	0	69	90	1	99	130	1	213	279	2	398	520	2	398	520	2	398
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	29	0	0	34	0	0	49	0	0	104	1	195	251	1	195	251	1	195
U.S. Northwest Coast to Other Med (0519)	0	13	79	0	102	134	0	159	208	1	312	408	2	551	720	2	551	720	2	551
Other Med to U.S. Northwest Coast (1905)	0	3	11	0	0	16	0	0	25	0	0	48	0	81	105	0	81	105	0	81
U.S. Northwest Coast to China (0521)	4	2,019	2,019	0	21	112	0	28	148	0	52	200	0	81	261	0	81	261	0	81
China to U.S. Northwest Coast (2105)	0	0	213	0	9	12	0	12	16	0	16	21	0	21	27	0	21	27	0	21
U.S. Northwest Coast to South East Asia (0522)	2	492	710	4	1,226	1,603	5	1,811	2,367	9	3,074	4,019	14	4,782	6,251	14	4,782	6,251	14	4,782
South East Asia to U.S. Northwest Coast (2205)	1	360	557	3	495	1,255	4	637	1,853	7	901	3,147	11	1,258	4,895	11	1,258	4,895	11	1,258
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1
TOTAL - U.S. Northwest Coast Routes	47	9,526	19,964	65	15,574	29,256	83	20,170	38,171	112	27,660	52,387	148	37,612	70,457	148	37,612	70,457	148	37,612
Total - US Routes	270	59,769	113,874	361	94,266	161,096	459	118,600	206,262	668	166,153	300,329	907	234,546	403,474	907	234,546	403,474	907	234,546

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Container - Less than 10,000 DWT (AD)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	13	35	0	18	24	0	27	0	35	35	0	40	53	0	58	76	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	12	40	0	13	19	0	14	0	28	42	0	14	16	0	14	21	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	29	38	0	48	0	63	114	0	88	170	0	130	170	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	1	1	0	1	0	2	2	0	2	2	0	2	3	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	3	4	0	4	0	6	10	0	8	13	0	13	17	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	1	25	75	0	70	94	0	102	0	144	238	0	164	238	0	238	354	0	238	354
Total - US Routes	36	1,706	4,782	52	4,827	7,566	59	5,803	77	8,573	11,002	111	9,845	15,225						

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Ratio - Greater than 10,000 DWT (AE)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Southern Europe (0509)	0	27	32	0	31	43	0	41	56	0	61	85	0	81	112	0	81	112		
Southern Europe to U.S. Northwest Coast (0905)	0	50	72	0	77	228	1	77	267	1	77	368	1	77	368	1	77	368		
U.S. Northwest Coast to Japan (0510)	1	31	77	0	45	79	0	56	94	0	69	130	0	76	151	0	76	151		
Japan to U.S. Northwest Coast (1005)	0	29	77	0	52	73	0	63	87	0	87	120	0	101	140	0	101	140		
U.S. Northwest Coast to Australia/New Zealand (0511)	0	31	143	0	34	169	1	176	245	1	356	495	2	638	887	2	638	887		
Australia/New Zealand to U.S. Northwest Coast (1105)	0	42	60	0	48	69	0	59	88	0	88	120	0	101	140	0	101	140		
U.S. Northwest Coast to Far East NIC's (0512)	1	35	156	0	34	169	1	176	245	1	356	495	2	638	887	2	638	887		
Far East NIC's to U.S. Northwest Coast (1205)	0	4	82	0	35	48	0	63	87	0	102	142	0	102	142	0	102	142		
U.S. Northwest Coast to South America East Coast (0513)	0	3	15	0	17	24	0	28	39	0	42	59	0	58	81	0	58	81		
South America East Coast to U.S. Northwest Coast (1305)	0	0	14	0	0	19	0	0	32	0	0	48	0	0	66	0	0	66		
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to China (0521)	0	0	0	0	1,245	1,729	0	2,074	2,880	0	3,757	5,219	0	5,554	7,713	0	5,554	7,713		
China to U.S. Northwest Coast (2105)	0	0	0	0	5	7	0	7	9	0	9	12	0	12	16	0	12	16		
U.S. Northwest Coast to South East Asia (0522)	0	20	20	0	1	2	0	2	3	0	3	4	0	4	5	0	4	5		
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	2	2	0	2	3	0	3	3	0	3	4	0	3	4		
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	2	34	0	38	53	0	69	96	0	105	148	0	105	148		
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	1	1	0	1	1	0	1	2	0	1	2	0	1	2		
Total - U.S. Northwest Coast Routes	3	275	849	2	1,754	2,643	2	2,749	4,065	4	4,799	7,113	6	7,098	10,602	6	7,098	10,602		
Total - US Routes	100	9,293	38,142	60	15,888	33,720	70	19,444	40,712	92	26,383	55,502	124	35,388	75,361	124	35,388	75,361		

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Ratio - Less than 10,000 DWT (AF)
On U.S. Northwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Northern Europe to U.S. Northwest Coast (0835)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Japan (0510)	1	14	31	1	17	44	1	18	52	1	17	74	2	28	39	2	17	119		
Japan to U.S. Northwest Coast (1005)	13	13	17	0	17	23	0	20	27	0	28	39	0	45	62	0	45	62		
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Far East NIC's (0512)	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America East Coast to U.S. Northwest Coast (1305)	0	1	9	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South America West Coast (0514)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	3	5	0	5	7	0	12	16	0	23	32	0	23	32		
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	3	7	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	2	4	0	3	7	0	0	15	0	0	24	0	0	24		
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	11	155	0	115	160	0	127	176	0	117	162	0	117	162		
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Northwest Coast (2105)	0	0	0	0	25	35	0	42	58	0	76	106	0	113	157	0	113	157		
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Northwest Coast (2205)	0	2	6	0	7	9	0	12	17	0	18	25	0	21	29	0	21	29		
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	1	0	0	1	0	1	1	0	1	1	0	2	3		
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Northwest Coast Routes	1	30	83	1	184	277	1	217	331	1	288	454	2	350	590	2	350	590		
Total - US Routes	127	2,502	11,441	68	3,507	6,849	76	4,139	7,616	90	5,433	8,950	108	6,936	10,690	108	6,936	10,690		

Total - US Routes

127 2,502 11,441 68 3,507 6,849 76 4,139 7,616 90 5,433 8,950 108 6,936 10,690

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Reefer (BA)
On U.S. Northwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	1	41	52	1	28	51	1	30	55	1	23	42	0	0	17	0	0	31	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	12	0	0	8	0	0	9	0	0	0	0	0	0	0	0	5	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	12	12	1	217	402	1	249	460	2	333	617	2	406	752	2	406	752	2	406
Japan to U.S. Northwest Coast (10305)	0	0	58	14	0	4,680	16	0	5,353	22	0	7,160	27	0	8,741	27	0	8,741	27	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	1	2	0	1	2	0	0	3	0	0	2	0	0	2	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	3	3	0	10	18	0	12	23	0	18	34	1	26	48	1	26	48	1	26
Far East NIC's to U.S. Northwest Coast (1205)	0	5	17	1	3	95	1	3	120	2	0	180	3	3	254	3	3	254	3	3
U.S. Northwest Coast to South America East Coast (0513)	1	1	92	0	0	5	0	0	5	0	0	1	0	0	1	0	0	1	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	3	12	0	1	1	0	0	1	1	0	1	0	0	1	0	0	1	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	2	31	0	0	3	0	0	2	0	0	1	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	1	26	42	1	26	49	1	45	83	0	71	131	2	91	168	2	91	168	2	91
U.S. Northwest Coast to Other Med (0519)	0	0	22	0	0	18	0	0	30	0	0	47	1	0	60	1	0	60	1	0
Other Med to U.S. Northwest Coast (1905)	1	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	17	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0
South East Asia to U.S. Northwest Coast (2205)	0	1	29	0	1	2	0	2	3	0	2	4	0	4	7	0	4	7	0	4
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	8	37	0	12	23	0	10	19	0	11	21	0	11	21	0	11	21	0	11
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	1	40	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1
Total - U.S. Northwest Coast Routes	6	104	565	19	302	5,360	22	355	6,168	30	446	8,274	37	560	10,096	37	560	10,096	37	560

Total - US Routes 108 4,151 16,305 172 7,726 30,897 179 8,281 32,346 205 9,431 38,043 228 10,349 42,874

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - Less than 20,000 DMT (DA)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	3	5	0	0	4	0	0	0	0	0	6
Northern Europe to U.S. Northwest Coast (0805)	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	30	0	43	57	0	0	34	0	21	0	0	9	12
Southern Europe to U.S. Northwest Coast (0905)	0	0	14	0	0	47	0	0	0	0	0	0	0	0	10
U.S. Northwest Coast to Japan (0510)	3	753	753	4	705	921	3	694	907	3	590	771	2	449	586
Japan to U.S. Northwest Coast (1005)	2	82	651	2	55	1,028	2	52	1,013	2	33	860	2	26	655
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	48	56	1	91	119	1	135	176	1	216	282	2	286	374
Far East NIC's to U.S. Northwest Coast (1205)	0	9	35	0	4	67	0	3	98	1	4	158	1	5	209
U.S. Northwest Coast to South America East Coast (0513)	1	0	135	0	0	103	0	0	87	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	23	25	0	20	26	0	17	22	0	11	56	0	0	40
U.S. Northwest Coast to South America West Coast (0514)	0	0	77	0	0	4	0	0	5	0	0	14	0	8	10
South America West Coast to U.S. Northwest Coast (1405)	0	12	37	0	1	1	0	0	2	0	1	3	0	0	2
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	2	19	0	4	6	0	1	1	1	1	1	0	1	1
U.S. Northwest Coast to South East Asia (0522)	0	0	76	0	3	4	0	6	8	0	8	10	0	10	13
South East Asia to U.S. Northwest Coast (2205)	0	2	19	0	1	1	0	7	9	0	12	16	0	20	27
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	23	0	0	0	0	1	2	0	1	4	0	1	7
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Total - U.S. Northwest Coast Routes	9	931	2,006	8	932	2,390	8	955	2,416	8	902	2,233	7	821	1,954
Total - US Routes	82	5,982	15,249	84	8,342	16,982	90	8,915	18,008	99	9,603	19,071	117	10,934	21,991

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipyard Bulk Carriers - 20,000 to 40,000 DWT (08)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	1	189	260	0	138	176	0	148	189	0	112	143	0	90	115
Northern Europe to U.S. Northwest Coast (0805)	1	11	368	0	33	153	0	33	163	0	35	124	0	35	100
U.S. Northwest Coast to Southern Europe (0509)	2	349	499	0	221	283	1	303	388	1	473	604	1	650	830
Southern Europe to U.S. Northwest Coast (0905)	1	7	249	0	8	83	0	10	113	0	11	177	1	12	242
U.S. Northwest Coast to Japan (0510)	53	13,805	18,361	67	23,136	29,548	66	22,787	29,102	52	17,725	22,637	33	11,315	14,451
Japan to U.S. Northwest Coast (1005)	40	2,559	7,735	51	200	9,835	50	186	9,686	39	17,103	7,534	25	56	4,810
U.S. Northwest Coast to Australia/New Zealand (0511)	1	132	1,366	1	91	1,468	1	135	1,502	1	210	1,498	1	299	1,018
Australia/New Zealand to U.S. Northwest Coast (1105)	4	982	1,288	2	844	1,078	2	907	1,158	2	898	1,147	2	797	1,018
U.S. Northwest Coast to Far East NIC's (0512)	19	5,326	6,166	40	10,708	13,676	64	17,030	21,749	92	26,478	31,262	120	31,821	40,640
Far East NIC's to U.S. Northwest Coast (1205)	15	83	7,130	31	30	14,972	50	32	23,812	72	33	34,226	93	33	44,404
U.S. Northwest Coast to South America East Coast (0513)	8	17	2,520	5	7	1,881	4	10	1,600	2	16	1,980	1	23	611
South America East Coast to U.S. Northwest Coast (1305)	2	634	699	1	513	656	1	437	1,558	1	267	342	0	167	213
U.S. Northwest Coast to South America West Coast (0514)	1	2	287	0	1	2	0	1	3	0	2	2	0	1	2
South America West Coast to U.S. Northwest Coast (1405)	0	0	625	2	2	3	0	3	3	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	53	53	53	0	11	14	0	4	5	0	2	3	0	1	2
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	102	0	0	19	0	0	17	0	0	6	0	0	1
U.S. Northwest Coast to South East Asia (0522)	2	361	588	0	185	236	1	246	315	1	229	293	0	155	198
South East Asia to U.S. Northwest Coast (2205)	0	0	43	0	0	24	0	0	32	0	0	30	0	0	20
U.S. Northwest Coast to Indian Sub-Continent (0523)	7	448	2,709	0	8	26	0	13	30	0	15	32	0	13	33
Indian Sub-Continent to U.S. Northwest Coast (2305)	6	6	2,632	0	18	23	0	22	28	0	23	29	0	24	30
	7	41	1,705	0	20	54	0	30	56	0	53	68	0	81	104
	3	352	397	7	22	28	0	23	29	0	26	35	0	29	53
	2	1	268	4	1,295	1,654	8	1,443	1,843	9	1,496	1,910	7	1,146	1,463
	1	1	1	4	1	1,132	5	1	1,261	5	1	1,307	4	2	1,001
Total - U.S. Northwest Coast Routes	180	23,099	55,895	213	37,498	76,027	254	43,814	92,656	277	46,213	103,395	289	46,752	110,877
Total - US Routes	646	67,212	206,137	558	111,051	203,615	628	122,762	232,001	673	128,477	253,047	752	137,203	287,952

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Bulk Carriers - 40,000 to 80,000 DWT (DC)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northwest Coast to Northern Europe (0508)	1	85	578	0	106	131	0	115	142	0	117	144	0	113	140	0	113	140		
Northern Europe to U.S. Northwest Coast (0805)	3	65	1,026	0	55	129	0	54	139	0	40	141	0	27	137	0	27	137		
U.S. Northwest Coast to Southern Europe (0509)	1	0	305	0	38	47	0	53	65	0	83	102	0	114	141	0	114	141		
Southern Europe to U.S. Northwest Coast (0905)	1	28	480	0	28	36	0	35	50	0	41	79	0	43	110	0	43	110		
U.S. Northwest Coast to Japan (0510)	16	4,539	10,216	11	5,923	7,312	11	6,227	7,687	10	5,403	6,670	7	4,204	5,191	7	4,204	5,191		
Japan to U.S. Northwest Coast (1005)	10	0	403	7	34	313	7	31	330	6	17	286	5	9	223	5	9	223		
U.S. Northwest Coast to Australia/New Zealand (0511)	2	261	672	1	356	516	1	498	615	2	680	840	2	819	1,011	2	819	1,011		
Australia/New Zealand to U.S. Northwest Coast (1105)	3	825	1,531	2	899	1,109	3	974	1,322	3	999	1,806	4	920	2,174	4	920	2,174		
U.S. Northwest Coast to Far East NIC's (0512)	6	3,514	3,684	13	8,119	10,023	18	11,132	13,743	19	11,675	14,413	18	11,239	13,875	18	11,239	13,875		
Far East NIC's to U.S. Northwest Coast (1205)	6	52	4,245	14	21	1,777	20	23	16,177	20	23	16,965	20	23	16,332	20	23	16,332		
U.S. Northwest Coast to South America East Coast (0513)	3	84	1,595	2	202	1,642	1	199	1,331	1	67	700	0	23	326	0	23	326		
South America East Coast to U.S. Northwest Coast (1305)	2	553	638	1	505	624	1	409	505	0	215	266	0	100	124	0	100	124		
U.S. Northwest Coast to South America West Coast (0514)	1	53	833	0	1	1	0	1	1	0	0	1	0	0	0	0	0	0		
South America West Coast to U.S. Northwest Coast (1405)	1	0	901	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0		
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Northwest Coast (1605)	0	0	61	0	1	3	0	1	3	0	1	2	0	1	1	0	1	1		
U.S. Northwest Coast to South Africa (0517)	0	0	85	0	5	7	0	7	8	0	10	12	0	11	14	0	11	14		
South Africa to U.S. Northwest Coast (1705)	0	2	43	0	2	2	0	2	2	0	1	3	0	1	3	0	1	3		
U.S. Northwest Coast to Arabian Gulf (0518)	7	1,684	2,620	0	171	211	0	176	218	1	189	233	1	310	383	1	310	383		
Arabian Gulf to U.S. Northwest Coast (1805)	1	2	212	0	1	17	0	1	18	0	798	985	0	540	667	0	540	667		
U.S. Northwest Coast to Other Med (0519)	1	510	510	2	643	793	2	857	1,058	2	0	0	2	0	0	2	0	0		
Other Med to U.S. Northwest Coast (1905)	0	0	64	0	0	63	0	0	84	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to China (0521)	2	428	946	0	8	24	0	12	32	0	14	38	0	12	46	0	12	46		
China to U.S. Northwest Coast (2105)	1	5	629	0	14	18	0	19	23	0	23	28	0	27	34	0	27	34		
U.S. Northwest Coast to South East Asia (0522)	3	0	1,825	0	3	155	0	5	162	0	9	184	0	14	201	0	14	201		
South East Asia to U.S. Northwest Coast (2205)	1	37	380	0	27	33	0	28	35	0	32	39	0	35	43	0	35	43		
U.S. Northwest Coast to Indian Sub-Continent (0523)	1	319	548	3	1,404	1,734	4	1,564	1,931	4	1,619	1,999	3	1,257	1,527	3	1,257	1,527		
Indian Sub-Continent to U.S. Northwest Coast (2305)	1	0	425	2	0	1,504	3	0	1,676	3	0	1,734	2	0	1,325	2	0	1,325		
Total - U.S. Northwest Coast Routes	73	13,048	35,453	59	18,566	38,248	72	22,384	47,358	72	22,057	47,768	66	19,826	44,112	66	19,826	44,112		
Total - US Routes	391	84,816	193,869	328	107,537	204,354	369	119,897	230,207	354	119,065	228,221	351	117,619	232,577	351	117,619	232,577		

Total - US Routes

391 84,816 193,869 328 107,537 204,354 369 119,897 230,207 354 119,065 228,221 351 117,619 232,577

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Bulk Carriers - 60,000 to 100,000 DWT (00)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	14	0	17	18	0	16	16	0	17	20	0	17	20	0	17	20	0	17
Northern Europe to U.S. Northwest Coast (0805)	0	0	9	0	10	10	0	8	8	0	6	7	0	6	7	0	4	4	0	4
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	5	0	6	7	0	6	6	0	7	8	0	7	9	0	7	9	0	7
U.S. Northwest Coast to Japan (0510)	0	0	329	0	394	460	0	393	460	0	405	473	0	392	458	0	392	458	0	392
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	64	0	74	103	0	88	103	0	116	135	0	136	159	0	136	159	0	136
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	132	0	155	168	0	144	168	0	148	173	0	138	161	0	138	161	0	138
U.S. Northwest Coast to Far East NIC's (0512)	0	0	1,100	0	1,206	1,678	0	1,435	1,678	0	1,299	1,519	0	994	1,162	0	994	1,162	0	994
Far East NIC's to U.S. Northwest Coast (1205)	0	0	3	0	3	4	0	3	4	0	3	4	0	3	4	0	3	4	0	3
U.S. Northwest Coast to South America East Coast (0513)	0	0	35	0	42	32	0	28	32	0	11	13	0	13	15	0	13	15	0	13
South America East Coast to U.S. Northwest Coast (1305)	0	0	73	0	86	69	0	59	69	0	30	35	0	13	15	0	13	15	0	13
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	1	0	1	1	0	1	1	0	2	2	0	2	2	0	2	2	0	2
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	30	0	35	36	0	31	36	0	33	39	0	55	64	0	55	64	0	55
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	108	0	126	168	0	144	168	0	134	156	0	90	106	0	90	106	0	90
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	1	0	1	2	0	2	2	0	3	4	0	2	2	0	2	2	0	2
China to U.S. Northwest Coast (2105)	0	0	2	0	2	3	0	3	3	0	3	4	0	4	5	0	4	5	0	4
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	6	0	7	7	0	6	7	0	7	8	0	8	10	0	8	10	0	8
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	207	0	243	270	0	231	270	0	239	280	0	183	213	0	183	213	0	183
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	0	0	2,119	0	2,478	3,037	0	2,597	3,037	0	2,463	2,880	0	2,051	2,399	0	2,051	2,399	0	2,051
Total - US Routes	6	3,792	5,948	16	20,555	32,912	18	22,677	32,912	17	22,361	32,556	17	21,827	32,219	17	21,827	32,219	17	21,827

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 100,000 to 175,000 DWT (DE)
On U.S. Northwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	34	312	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	519	519	0	0	530	0	559	653	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	1,462	0	1,858	2,174	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	57	0	51	59	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	1	553	1,739	1	2,048	2,396	1	2,476	2,897	1	2,095	2,451	1	1,498	1,753	1	1,498	1,753	1	1,498

Total - US Routes

32,948 70,850

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - Greater than 175,000 DWT (DF)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	1
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	200	234	0	215	0	328	251	0	212	248	0	187	219	0	177	207
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	258	302	0	0	0	0	384	0	0	314	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	10	12	0	9	0	0	10	0	3	4	0	1	1	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	0	0	152	0	469	549	0	553	0	8,043	647	0	484	566	0	366	428	0	6,818	12,472
Total - US Routes	2	669	3,119	3	7,332	11,062	3	8,043	3	8,043	12,477	3	7,363	12,435	3	6,818	12,472	3	6,818	12,472

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 20,000 to 40,000 DWT (EB)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	9	12	0	10	13	0	8	10	0	6	8
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	0	0	22	0	9	12	0	10	13	0	8	10	0	6	8
Total - US Routes	1	32	456	0	61	192	0	57	181	0	43	141	0	30	102

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Combination Carriers - 40,000 to 80,000 DWT (EC)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	2	2	0	0	2	0	0	2	0	1	2	0	0	1		
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Japan (0510)	0	41	59	0	44	55	0	44	54	0	24	30	0	11	35	0	11	14		
Japan to U.S. Northwest Coast (1005)	0	0	71	0	0	66	0	0	64	0	0	0	0	0	0	0	0	17		
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	342	422	0	431	532	0	359	444	0	267	539	0	267	305		
Far East NIC's to U.S. Northwest Coast (1205)	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Northwest Coast (1405)	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Other Med (0519)	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Northwest Coast Routes	1	41	455	0	388	544	0	476	654	0	385	510	0	260	510	0	260	337		
Total - US Routes	33	16,526	29,815	28	16,180	32,061	29	16,256	32,997	27	14,850	31,485	24	13,432	31,485	24	13,432	28,883		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Combination Carriers - 80,000 to 100,000 DWT (ED)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	16	84	0	1	2	0	1	1	0	0	1	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	8	9	0	8	9	0	0	5	0	2	2
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	209	244	0	293	343	0	236	276	0	128	150
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	84	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	167	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	1	16	334	0	218	255	0	302	354	0	241	281	0	131	153
Total - US Routes	7	5,089	8,448	11	8,560	15,898	11	9,199	16,824	11	9,121	16,753	11	8,688	16,358

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Combination Carriers - 100,000 to 175,000 DWT (EE)
On U.S. Northwest Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	25	16,463	36,876	20	400	468	0	557	652	0	470	549	0	283	331
Total - US Routes					23,204	40,753	22	25,757	46,253	24	27,170	52,149	26	28,748	57,805

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Combination Carriers - Greater than 175,000 DWT (EF)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	66	77	0	0	92	0	0	107	0	77	91	0	0	47		
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55		
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Northwest Coast Routes	0	0	0	0	66	77	0	92	107	0	77	91	0	47	55	0	0	0		
Total - US Routes	0	203	585	1	4,624	5,410	1	5,261	6,155	1	5,895	6,897	2	6,593	7,713	0	0	0		

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipoyne Tankers - Less than 10,000 DWT (FA)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	18	18	18	10	10	15	12	12	15	13	13	17	0	0	18
Japan to U.S. Northwest Coast (1005)	0	0	42	0	0	31	0	0	37	0	0	41	0	0	43
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	19	42	42	35	46	84	64	1	84	119	119	155	2	196	256
Far East NIC's to U.S. Northwest Coast (1205)	0	0	7	0	0	8	0	0	15	0	0	28	0	0	47
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	2	2	3	2	0	3	0	0	3	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	6	9	12	16	18	14	0	18	2	2	24	0	22	29
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	1	1	1	1	0	1	1	1	1	0	0	1
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	24	0	0	7	0	0	6	0	0	6	0	0	6
South East Asia to U.S. Northwest Coast (2205)	0	7	26	0	5	7	4	0	6	4	4	5	0	4	6
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	2	49	177	1	65	131	2	98	186	2	157	280	4	240	404
Total - US Routes	54	4,432	6,566	95	5,659	9,172	115	6,360	11,192	163	7,674	16,272	233	9,406	23,421

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipyard Tankers - 10,000 to 40,000 DWT (FB)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northwest Coast to Northern Europe (0508)	0	48	48	1	32	112	1	14	145	2	19	257	3	27	401					
Northern Europe to U.S. Northwest Coast (0805)	0	14	18	0	32	42	0	42	55	1	74	97	1	116	152					
U.S. Northwest Coast to Southern Europe (0509)	0	32	40	0	3	4	0	3	3	0	0	0	0	0	0					
Southern Europe to U.S. Northwest Coast (0905)	0	30	30	0	0	3	0	0	2	0	0	0	0	0	0					
U.S. Northwest Coast to Japan (0510)	1	519	519	1	251	328	1	295	386	1	298	399	1	284	372					
Japan to U.S. Northwest Coast (1005)	2	54	643	1	139	389	1	117	458	1	68	462	1	67	441					
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	67	102	0	75	153	0	61	80	0	32	42					
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northwest Coast to Far East NIC's (0512)	1	288	338	1	149	194	1	183	259	1	199	260	1	281	367					
Far East NIC's to U.S. Northwest Coast (1205)	1	13	386	1	52	228	1	36	280	1	21	305	1	12	430					
U.S. Northwest Coast to South America East Coast (0513)	2	13	877	1	24	202	1	32	232	1	15	207	1	5	363					
South America East Coast to U.S. Northwest Coast (1305)	1	110	545	0	94	123	0	108	141	1	138	181	1	169	221					
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	12	15	0	15	19	0	6	8	0	2	3					
South America West Coast to U.S. Northwest Coast (1405)	0	0	21	0	0	3	0	0	3	0	0	1	0	0	0					
U.S. Northwest Coast to East Africa (0515)	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0					
East Africa to U.S. Northwest Coast (1505)	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	114	0	0	33	0	0	42	0	0	43	0	0	43					
Arabian Gulf to U.S. Northwest Coast (1805)	0	40	40	0	9	12	0	11	15	0	12	15	0	0	15					
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
China to U.S. Northwest Coast (2105)	0	0	0	0	2	2	0	2	2	0	1	1	0	0	0					
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	11	15	0	9	11	0	4	5	0	0	0					
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	57	75	0	38	49	0	22	29	0	12	16					
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	115	151	0	102	133	0	96	125	0	101	132					
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Total - U.S. Northwest Coast Routes	11	1,159	3,898	6	1,050	2,113	7	1,081	2,369	8	1,036	2,557	11	1,122	3,002					
Total - US Routes	295	57,310	113,686	449	88,983	168,596	491	99,642	184,180	548	115,683	214,393	694	147,117	270,379					

Total - US Routes

295 57,310 113,686 449 88,983 168,596 491 99,642 184,180 548 115,683 214,393 684 147,117 270,379

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipyard Tankers - 40,000 to 80,000 DWT (FC)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	6	7	0	0	2	3	0	0	4	0	0	5	0	0	6
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	6	7	0	0	7	13	0	0	17	0	0	20	0	0	26
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	7	9	0	0	6	8	0	0	3	0	0	1	0	0	1
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	116	116	0	100	128	128	0	0	118	151	0	120	153	0	115	147	0	115	147
U.S. Northwest Coast (1005)	0	0	131	0	12	118	118	0	0	13	139	0	12	141	0	12	136	0	12	136
U.S. Northwest Coast to Australia/New Zealand (0511)	0	19	70	0	48	61	61	0	0	40	51	0	21	27	0	11	14	0	11	14
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	32	32	0	0	30	39	0	31	40	0	43	55	0	43	55
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	9	14	14	0	0	6	8	0	4	5	0	2	3	0	2	3
U.S. Northwest Coast to South America East Coast (0513)	0	20	70	0	41	114	114	0	0	37	130	0	26	167	0	8	204	0	8	204
South America East Coast to U.S. Northwest Coast (1305)	0	66	112	0	151	193	193	0	0	173	221	0	222	284	1	271	347	1	271	347
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	20	25	25	0	0	25	32	0	11	14	0	3	4	0	3	4
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	7	9	0	7	9	0	7	9	0	7	9
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	2	3	3	0	0	2	2	0	1	1	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	51	0	10	13	13	0	0	7	8	0	4	5	0	2	3	0	2	3
South East Asia to U.S. Northwest Coast (2205)	0	29	115	0	47	60	60	0	0	43	55	0	42	54	0	46	59	0	46	59
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	1	249	737	1	490	789	789	1	536	867	1	520	924	1	549	1,014				

Total - US Routes

129,619

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipyard Tankers - 80,000 to 100,000 DWT (FD)
On U.S. Northwest Coast Routes

3/14/90

ROUTE

	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	1	958	1,123	0	0	497	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	203	241	0	0	44	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	174	261	0	0	460	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	154	529	0	0	31	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (0514)	0	0	83	0	0	4	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0515)	0	0	138	0	0	8	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (0516)	0	0	264	0	0	29	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0517)	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0518)	0	0	97	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	255	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	346	480	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	1	0	286	0	0	1	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	195	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	1	0	864	0	0	3	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	1	962	1,598	0	0	622	1	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	987	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	7	2,797	6,672	2	1,734	2,999	3	1,842	3,266	3	1,720	3,108	2	1,679	3,043
Total - US Routes	95	43,275	112,339	63	44,251	78,020	65	48,056	83,244	66	52,550	89,900	70	58,172	98,715

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	1	0	3,916	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	1	0	2,192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	254	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	3	89	6,592	0	424	496	0	458	536	0	394	460	0	345	403	0	345	403	0	345

Total - US Routes

86 48,330 153,437 80 85,252 145,146 99 106,191 179,040 133 143,821 238,940 169 183,327 302,855

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - 175,000 to 250,000 DWT (FF)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	2	0	6,685	0	0	2,546	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	227	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	6	0	9,458	0	22	26	0	25	30	0	18	21	0	11	12	0	34,008	43,005	4	43,005
Total - US Routes	16	1,226	29,728	2	15,550	19,546	3	19,474	24,534	3	26,569	33,550	3	26,569	33,550	4	34,008	43,005	4	43,005

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - Greater than 250,000 DWT (FG)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	267	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	1	0	269	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	1	0	5,598	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	4,532	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	2	0	10,666	0	0	0	0	0	0	0	0	0	0	0	0
Total - US Routes	26	29,156	73,643	53	67,935	128,838	67	84,775	160,555	94	115,564	217,955	122	147,902	278,039

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Gas Tankers (GA)
On U.S. Northwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Southern Europe (0509)	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Japan (0510)	2	951	1,660	4	1,330	2,956	5	1,684	3,742	6	1,910	4,244	7	2,124	4,721	7	2,124	4,721		
Japan to U.S. Northwest Coast (1005)	1	0	1,019	2	0	1,748	3	0	2,213	3	0	2,510	4	0	2,792	4	0	2,792		
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Far East NIC's (0512)	1	0	222	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Far East NIC's to U.S. Northwest Coast (1205)	0	0	163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South America East Coast (0513)	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South America West Coast (0514)	0	0	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Northwest Coast (1405)	0	0	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Other Med (0519)	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South East Asia (0522)	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Northwest Coast (2205)	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Northwest Coast Routes	5	952	3,186	7	1,330	4,704	8	1,684	5,955	9	1,910	6,753	10	2,124	7,513					
Total - US Routes	70	3,540	21,365	49	5,185	22,894	56	6,747	29,175	64	9,384	39,007	86	12,788	52,852					

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Vehicle Carriers (18)
On U.S. Northwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	3	15	511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	1	0	257	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	10	442	2,313	12	473	6,063	11	0	0	0	0	0	9	0	4,595	6	0	3,207	5	0
Japan to U.S. Northwest Coast (1005)	9	0	2,438	10	0	5,257	10	0	0	0	0	0	8	359	3,984	5	250	2,781	5	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	1	0	131	3	0	1,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	1	74	215	4	196	2,176	5	0	2,112	6	0	3,443	9	421	4,681	12	607	6,743	9	0
U.S. Northwest Coast to South America East Coast (0513)	2	0	257	0	0	0	0	0	2,871	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	1	0	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	1	0	129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	1	0	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	4	0	772	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	32	0	16	183	0	0	234	0	0	0	1	41	457	1	69	768	1	0
China to U.S. Northwest Coast (2105)	0	0	44	1	0	322	1	0	412	1	0	803	2	0	803	2	0	1,351	2	0
U.S. Northwest Coast to South East Asia (0522)	0	0	36	0	0	0	0	0	2	0	0	5	0	0	5	0	1	8	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	69	0	0	3	0	0	4	0	0	8	0	0	8	0	0	14	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	36	531	7,604	30	694	15,712	31	739	16,526	34	827	18,043	37	930	19,872					
Total - US Routes	266	3,730	51,989	216	3,877	91,054	224	3,975	95,338	227	3,899	99,251	230	3,848	105,936					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Product Tankers - Less than 10,000 DWT (PA)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	2	7	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	19	737	2,017	28	1,002	3,004	33	1,209	3,630	38	1,534	4,325	44	2,004	5,157

Total - US Routes

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Product Tankers - 10,000 to 40,000 DWT (PB)
On U.S. Northwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020				
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	11	0	3	4	0	5	6	0	0	0	0	0	7	9	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	46	0	29	38	0	15	20	0	0	0	0	0	8	10	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	8	11	0	0	5	0	0	0	0	0	1	2	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	6	8	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	4	0	4	5	0	2	2	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	3	0	3	4	0	3	4	0	0	0	0	0	3	4	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	34	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	1	8	327	0	3	4	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	2	23	388	0	14	35	0	9	31	0	6	29	0	0	1	0	0	3	31	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	36	0	0	29	38	0	0	33	0	24	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	4	67	994	0	101	149	0	85	131	0	59	100	0	48	90	0	48	100	0	48	90

Total - US Routes

40 4,148 10,671 22 4,008 7,054 23 4,347 7,740 25 5,022 8,575 30 6,171 10,414

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Product Tankers - 40,000 to 80,000 DWT (PC)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	131	1	1	282	1	1	353	1	1	638	2	1	995
Northern Europe to U.S. Northwest Coast (0805)	0	23	46	0	52	67	0	67	86	0	118	151	1	184	235
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	2	2	0	2	2	0	1	1	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	15	46	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	75	127	0	34	43	0	39	50	0	39	49	0	36	47
Japan to U.S. Northwest Coast (1005)	0	15	148	0	19	42	0	22	48	0	23	48	0	27	45
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	12	15	0	10	13	0	5	7	0	3	3
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	90	126	0	45	72	0	59	84	0	74	95	0	111	141
Far East NIC's to U.S. Northwest Coast (1205)	0	35	89	0	37	47	0	43	55	0	42	62	0	38	92
U.S. Northwest Coast to South America East Coast (0513)	0	5	192	0	10	89	0	14	102	0	6	131	0	2	160
South America East Coast to U.S. Northwest Coast (1505)	0	30	247	0	61	78	0	70	90	0	90	115	0	110	141
U.S. Northwest Coast to South America West Coast (0514)	0	0	46	0	5	6	0	6	8	0	3	3	0	1	1
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	12	91	0	1	2	0	2	2	0	2	2	0	2	2
U.S. Northwest Coast to Other Med (0519)	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	117	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	119	0	3	15	0	2	13	0	1	13	0	1	14
South East Asia to U.S. Northwest Coast (2205)	0	7	133	0	12	15	0	11	14	0	11	13	0	12	15
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	125	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	3	306	1,829	1	294	776	2	347	929	2	415	1,329	3	527	1,892

Total - US Routes

107,039

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Product Tankers - 80,000 to 100,000 DWT (PD)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	9	11	0	12	0	0	0	0	0	21	26	0	32	40	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0505)	0	98	98	0	55	68	0	65	81	0	67	83	0	67	83	0	65	80	0	0
U.S. Northwest Coast to Japan (0510)	0	51	84	0	3	48	0	4	57	0	4	58	0	4	58	0	5	56	0	0
Japan to U.S. Northwest Coast (1005)	0	35	84	0	0	68	0	46	37	0	24	30	0	24	30	0	13	16	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	25	182	0	14	44	0	0	0	0	15	19	0	15	19	0	20	25	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	6	17	0	16	20	0	9	9	0	7	9	0	7	8	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	92	0	2	8	0	2	3	0	1	1	0	1	1	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	11	13	0	12	15	0	16	20	0	16	20	0	19	24	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	184	0	1	1	0	1	1	0	1	1	0	1	1	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	92	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	93	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	1	1	0	0	169	0	0	180	0	0	180	0	0	201	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	280	0	0	164	0	0	255	0	220	271	0	220	271	0	246	303	0	0
South East Asia to U.S. Northwest Coast (2205)	0	240	187	0	200	247	0	207	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	2	449	2,116	1	357	693	1	374	721	1	376	717	1	376	717	1	407	764		
Total - US Routes	20	11,023	26,428	31	17,832	40,945	33	19,356	43,702	38	22,862	50,894	46	27,968	60,826					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Product Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	9	10	0	0	10	0	0	12	0	0	12	0	0	12	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	10	11	0	0	9	0	0	9	0	0	5	0	0	2	0	3
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	35	41	0	0	36	0	39	45	0	0	45	0	0	50	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	0	0	0	0	54	64	0	56	65	0	54	63	0	54	63	0	56	65	0	65

Total - US Routes

2 1,428 3,457 4 7,765 12,240 4 9,967 14,746 5 14,280 19,796 5 19,276 25,724

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Product Tankers - 175,000 to 250,000 DWT (PF)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - US Routes	0	0	0	0	1,005	1,175	0	1,365	1,596	0	2,036	2,381	0	2,797	3,271					

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For ShipType Other Ships (XX)
On U.S. Northwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	29	36	0	0	33	41	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	6	509	3,435	2	73	990	2	737	935	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	6	152	3,758	1	173	930	1	230	935	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	82	0	0	19	0	0	22	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	12	93	0	17	21	0	19	24	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	24	0	27	34	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	102	125	0	152	188	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	24	0	28	34	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	3	42	0	14	17	0	23	28	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	56	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	166	205	0	277	341	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	5	7	0	7	8	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	2	2	6	105	129	11	199	246	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	16	16	16	29	872	30	37	1,664	17	44	363	19	339	2,827	50	75	418	19	418
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	3	4	0	5	6	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	14	695	7,565	25	1,436	3,344	44	1,796	4,507	64	2,347	5,912	73	2,895	6,858					
Total - US Routes	121	4,312	39,929	104	8,033	24,083	134	9,808	28,048	179	12,739	35,395	220	16,255	43,535					

Southwest Coast

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shippers
On U.S. Southwest Coast Routes

ROUTE	1987			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	23	2,941	7,930	14	4,456	6,054	9	2,861	3,997	11	3,436	4,611
Northern Europe to U.S. Southwest Coast (0804)	25	1,844	7,867	13	2,221	6,477	12	2,330	5,824	10	2,595	5,524
U.S. Southwest Coast to Southern Europe (0409)	9	955	2,953	3	403	1,412	3	400	1,642	5	261	2,253
Southern Europe to U.S. Southwest Coast (0904)	9	564	2,947	2	1,159	1,481	2	1,382	1,762	4	2,606	2,514
U.S. Southwest Coast to Japan (0410)	77	8,042	18,617	82	11,449	28,359	87	12,610	29,290	89	14,292	27,847
Japan to U.S. Southwest Coast (1004)	68	4,536	32,642	62	7,252	38,982	64	7,897	41,787	62	10,627	43,861
U.S. Southwest Coast to Australia/New Zealand (0411)	9	1,281	3,277	8	1,694	4,048	9	1,978	4,165	15	2,775	6,286
Australia/New Zealand to U.S. Southwest Coast (1104)	7	1,970	2,725	6	2,811	3,580	7	3,286	4,150	12	5,626	7,338
U.S. Southwest Coast to Far East MIC's (0412)	48	6,857	16,558	40	16,683	23,808	58	24,077	33,965	165	65,535	95,006
Far East MIC's to U.S. Southwest Coast (1204)	56	6,580	17,252	49	5,629	21,047	73	6,754	31,454	232	11,921	57,108
U.S. Southwest Coast to South America East Coast (0413)	85	3,791	18,902	45	4,106	13,309	45	5,213	13,658	26	1,958	8,362
South America East Coast to U.S. Southwest Coast (1304)	24	3,567	7,363	11	3,203	4,996	12	2,990	5,399	10	2,491	5,259
U.S. Southwest Coast to South America West Coast (0414)	43	2,220	24,635	15	3,136	3,802	17	2,164	4,408	26	154	7,132
South America West Coast to U.S. Southwest Coast (1404)	38	699	28,134	15	2,287	3,566	16	2,660	4,092	24	4,370	6,535
U.S. Southwest Coast to East Africa (0415)	1	2	134	1	4	67	0	6	49	0	26	36
East Africa to U.S. Southwest Coast (1504)	0	10	30	0	5	52	0	3	34	0	0	3
U.S. Southwest Coast to West Africa (0416)	47	138	217	0	8	52	0	13	83	0	47	169
West Africa to U.S. Southwest Coast (1604)	18	38	422	0	54	76	0	86	122	1	138	233
U.S. Southwest Coast to South Africa (0417)	2	100	359	0	95	147	0	159	217	0	187	276
South Africa to U.S. Southwest Coast (1704)	1	178	1,706	0	25	32	0	31	40	0	43	55
U.S. Southwest Coast to Arabian Gulf (0418)	8	334	4,474	2	451	420	2	567	528	3	197	618
Arabian Gulf to U.S. Southwest Coast (1804)	9	223	2,025	2	80	687	2	85	859	3	580	932
U.S. Southwest Coast to Other Med (0419)	17	4	110	0	91	417	0	118	537	1	136	1,265
Other Med to U.S. Southwest Coast (1904)	4	49	857	0	91	122	0	85	156	1	240	365
U.S. Southwest Coast to China (0421)	6	280	2,025	7	1,897	4,029	8	2,927	5,281	18	7,771	12,739
China to U.S. Southwest Coast (2104)	6	1,607	6,919	3	2,995	4,242	4	3,599	5,153	5	5,616	7,830
U.S. Southwest Coast to South East Asia (0422)	16	7,631	12,547	18	3,542	10,289	19	4,851	12,243	31	13,067	24,855
South East Asia to U.S. Southwest Coast (2204)	25	392	1,566	21	9,870	15,228	25	10,311	18,243	46	13,756	37,904
U.S. Southwest Coast to Indian Sub-Continent (0423)	7	34	1,876	5	2,065	2,800	8	3,289	4,433	18	7,131	10,235
Indian Sub-Continent to U.S. Southwest Coast (2304)	3			6	422	2,159	10	5,509	3,468	23	704	8,098
Total - U.S. Southwest Coast Routes	630	54,881	230,611	431	85,211	201,737	495	101,243	237,712	630	131,728	312,482

Total - US Routes
3,735 598,926 1,565,968 3,494 947,703 1,882,644 4,031 1,104,854 2,191,823 4,870 1,328,408 2,664,842 6,128 1,623,171 3,310,127

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipoyne General Cargo - Greater than 10,000 DWT (AA)
On U.S. Southwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	1	74	134	0	89	126	0	97	133	0	121	158	1	165	216					
Northern Europe to U.S. Southwest Coast (0804)	1	86	101	0	82	107	0	87	114	0	87	135	0	87	184					
U.S. Southwest Coast to Southern Europe (0409)	0	13	48	0	14	38	0	15	44	0	16	63	0	16	83					
Southern Europe to U.S. Southwest Coast (0904)	0	18	81	0	34	45	0	40	52	0	56	73	0	74	97					
U.S. Southwest Coast to Japan (0410)	5	777	1,090	3	876	1,146	4	979	1,280	4	1,057	1,381	4	1,071	1,400					
Japan to U.S. Southwest Coast (1004)	7	476	2,233	5	565	1,743	6	614	1,948	6	615	2,101	6	654	2,129					
U.S. Southwest Coast to Australia/New Zealand (0411)	1	93	354	0	189	247	1	284	371	1	441	577	2	441	577					
Australia/New Zealand to U.S. Southwest Coast (1104)	1	41	188	0	45	74	0	53	111	1	74	173	1	74	88					
U.S. Southwest Coast to Far East NIC's (0412)	4	201	916	3	555	850	4	898	1,174	8	1,839	2,404	14	3,393	4,436					
Far East NIC's to U.S. Southwest Coast (1204)	6	1,456	1,871	4	1,030	1,346	5	1,128	1,859	11	1,198	3,807	20	1,268	7,025					
U.S. Southwest Coast to South America East Coast (0413)	12	44	1,866	2	12	479	2	15	455	2	23	406	2	23	374					
South America East Coast to U.S. Southwest Coast (1304)	6	250	898	1	174	228	1	166	216	1	148	193	1	136	178					
U.S. Southwest Coast to South America West Coast (0414)	8	20	1,966	1	16	355	1	19	365	1	25	436	2	26	490					
South America West Coast to U.S. Southwest Coast (1404)	6	111	1,970	1	215	281	1	221	289	1	264	345	1	266	387					
U.S. Southwest Coast to East Africa (0415)	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0					
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to West Africa (0416)	0	5	15	0	6	8	0	10	14	0	23	30	0	39	51					
West Africa to U.S. Southwest Coast (1604)	0	3	19	0	2	10	0	3	16	0	3	36	0	4	61					
U.S. Southwest Coast to South Africa (0417)	0	0	116	0	0	10	0	0	9	0	0	9	0	0	10					
South Africa to U.S. Southwest Coast (1704)	1	0	53	0	3	4	0	3	4	0	3	4	0	3	4					
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Arabian Gulf to U.S. Southwest Coast (1804)	1	5	267	0	7	9	0	7	9	0	5	6	0	0	0					
U.S. Southwest Coast to Other Med (0419)	0	0	54	0	0	29	0	0	36	0	0	53	0	4	5					
Other Med to U.S. Southwest Coast (1904)	0	6	21	0	11	14	0	14	18	0	20	26	0	32	42					
U.S. Southwest Coast to China (0421)	1	29	155	1	125	208	1	235	272	2	374	489	3	596	779					
China to U.S. Southwest Coast (2104)	0	30	82	0	63	83	0	83	109	1	114	195	1	152	311					
U.S. Southwest Coast to South East Asia (0422)	1	91	233	1	208	272	2	373	488	3	572	747	3	700	915					
South East Asia to U.S. Southwest Coast (2204)	2	79	465	1	73	490	3	86	880	4	99	1,347	5	110	1,649					
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	54	59	1	124	162	1	204	267	2	348	455	3	481	628					
Indian Sub-Continent to U.S. Southwest Coast (2304)	1	8	319	3	15	738	4	18	1,218	7	22	2,076	10	27	2,868					
Total - U.S. Southwest Coast Routes	67	3,982	15,609	29	4,535	9,102	37	5,623	11,753	56	7,545	17,729	80	10,105	25,518					
Total - US Routes	337	23,476	71,839	209	28,449	56,451	263	35,612	71,071	379	47,876	102,581	525	63,438	141,853					

Total - US Routes

141,863

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
for Shiptype General Cargo - (Less than 10,000 DWT) (AB)
On U.S. Southwest Coast Routes

ROUTE	On U.S. Southwest Coast Routes														
	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0608)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	3	21	0	7	11	0	9	14	0	12	18	0	15	23
U.S. Southwest Coast to Southern Europe (0409)	0	0	9	0	0	2	0	0	2	0	0	3	0	0	5
Southern Europe to U.S. Southwest Coast (0904)	0	4	25	0	5	8	0	6	9	0	9	13	0	12	18
U.S. Southwest Coast to Japan (0410)	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	1	10	50	0	16	24	0	28	41	1	57	84	2	105	156
Far East NIC's to U.S. Southwest Coast (1204)	0	11	35	0	5	19	0	5	33	1	6	68	1	7	125
U.S. Southwest Coast to South America East Coast (0613)	2	0	90	0	0	43	0	7	44	0	8	49	0	0	51
South America East Coast to U.S. Southwest Coast (1304)	0	13	31	0	7	10	0	0	11	0	8	12	0	8	12
U.S. Southwest Coast to South America West Coast (0614)	3	0	235	0	0	38	0	17	39	0	20	47	0	0	54
South America West Coast to U.S. Southwest Coast (1404)	2	12	244	0	16	26	0	0	25	0	0	30	0	23	34
U.S. Southwest Coast to East Africa (0415)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	1	1	9	0	4	6	0	7	10	0	12	18	1	20	29
U.S. Southwest Coast to South East Asia (0422)	0	2	8	0	3	11	0	3	19	0	4	34	0	6	54
South East Asia to U.S. Southwest Coast (2204)	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	3	18	0	4	6	0	7	11	0	12	18	0	16	24
Total - U.S. Southwest Coast Routes	11	59	908	2	68	204	2	90	258	4	142	396	6	214	588
Total - US Routes	184	3,657	15,320	75	3,169	6,058	89	3,734	7,111	129	5,029	10,024	185	6,790	14,132

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Greater than 10,000 DWT (AC)
On U.S. Southwest Coast Routes

4/24/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	3	578	798	4	846	1,201	4	913	1,244	4	977	1,277	4	1,011	1,322
Northern Europe to U.S. Southwest Coast (0804)	4	1,169	1,788	6	1,368	1,788	6	1,417	1,852	6	1,392	1,901	6	1,450	1,968
U.S. Southwest Coast to Southern Europe (0409)	1	154	481	1	199	540	2	172	626	2	179	879	3	174	1,214
Southern Europe to U.S. Southwest Coast (0904)	2	284	586	2	503	667	2	583	761	2	818	1,069	3	1,130	1,477
U.S. Southwest Coast to Japan (0410)	10	3,085	6,292	9	4,553	5,952	11	5,546	7,250	14	7,256	9,484	17	9,080	11,790
Japan to U.S. Southwest Coast (1004)	11	2,329	7,695	9	3,313	6,882	11	3,872	8,323	15	5,152	10,888	19	7,217	13,535
U.S. Southwest Coast to Australia/New Zealand (0411)	3	250	610	3	424	776	3	537	813	4	609	968	5	774	1,210
Australia/New Zealand to U.S. Southwest Coast (1104)	2	360	536	3	487	637	3	511	667	3	608	795	4	760	994
U.S. Southwest Coast to Far East NIC's (0412)	8	3,249	4,154	19	8,228	10,756	30	12,677	16,571	56	23,803	31,116	63	41,725	56,669
Far East NIC's to U.S. Southwest Coast (1204)	10	4,353	5,352	16	3,774	8,594	24	4,518	13,289	45	5,727	24,860	51	7,623	27,889
U.S. Southwest Coast to South America East Coast (0413)	3	75	2,184	2	342	1,070	2	583	1,762	2	647	1,150	2	1,004	1,313
South America East Coast to U.S. Southwest Coast (1304)	3	454	1,120	2	602	1,787	2	583	1,762	2	647	1,150	2	722	966
U.S. Southwest Coast to South America West Coast (0414)	0	16	35	0	20	26	0	25	32	0	33	43	0	42	55
South America West Coast to U.S. Southwest Coast (1404)	0	17	108	0	8	79	0	9	96	0	10	130	0	10	166
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	17	0	1	1	0	2	2	0	4	5	0	7	9
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	1	20	78	0	34	45	0	55	72	0	85	112	1	107	140
U.S. Southwest Coast to Other Med (0419)	1	32	76	0	61	131	0	70	174	1	104	270	1	132	136
Other Med to U.S. Southwest Coast (1904)	1	99	227	0	68	89	0	99	130	1	140	183	1	221	289
U.S. Southwest Coast to China (0421)	1	0	390	0	67	88	0	99	130	0	186	263	1	307	401
China to U.S. Southwest Coast (2104)	2	0	903	0	32	204	1	43	300	0	60	562	2	84	929
U.S. Southwest Coast to South East Asia (0422)	2	654	834	4	1,820	2,379	6	2,744	3,587	11	5,036	6,583	19	8,599	11,241
South East Asia to U.S. Southwest Coast (2204)	4	1,000	2,132	5	1,967	2,552	5	2,315	2,552	9	2,994	4,593	15	3,818	7,655
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	16	16	0	61	80	0	85	111	1	136	178	1	212	277
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	16	0	21	78	1	26	108	1	30	174	1	34	270
Total - U.S. Southwest Coast Routes	71	18,392	36,167	87	28,764	45,387	114	37,334	60,497	183	56,729	98,416	224	86,187	122,343
Total - US Routes	270	59,769	113,874	361	94,266	161,096	459	118,600	206,262	668	166,153	300,329	907	234,546	403,474

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Less than 10,000 DWT (40)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	25	31	0	55	77	0	78	102	0	111	145	1	111	145	1	154	202	1	154
Australia/New Zealand to U.S. Southwest Coast (1104)	0	51	52	0	69	90	1	72	118	1	86	169	1	29	38	1	107	235	1	107
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	1	0	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	2	76	210	1	169	226	1	212	301	1	296	443	2	410	631	2	410	631	2	410
Total - US Routes	36	1,706	4,782	52	4,827	7,566	59	5,803	8,573	77	7,521	11,002	111	9,845	15,225	111	9,845	15,225	111	9,845

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship Type RORO - Greater than 10,000 DWT (AE)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	18	47	0	22	31	0	24	24	0	26	48	0	27	63
Southern Europe to U.S. Southwest Coast (0904)	0	9	35	0	19	26	0	21	21	0	29	41	0	38	53
U.S. Southwest Coast to Japan (0410)	0	71	71	0	206	314	0	238	330	0	264	367	0	275	382
Japan to U.S. Southwest Coast (1004)	2	105	1,019	2	127	1,242	2	143	1,307	3	180	1,650	3	244	1,512
U.S. Southwest Coast to Australia/New Zealand (0411)	0	17	136	0	21	232	0	22	271	0	22	387	1	30	468
Australia/New Zealand to U.S. Southwest Coast (1104)	0	130	171	0	180	250	0	210	292	0	301	418	1	364	505
U.S. Southwest Coast to Far East NIC's (0412)	0	54	75	0	179	249	1	292	405	1	608	844	3	1,136	1,578
Far East NIC's to U.S. Southwest Coast (1204)	2	411	680	1	565	927	2	790	1,508	5	1,292	3,143	9	2,096	5,875
U.S. Southwest Coast to South America East Coast (0413)	2	26	769	0	9	49	0	14	51	0	18	3	0	19	60
South America East Coast to U.S. Southwest Coast (1304)	0	0	19	0	2	3	0	2	3	0	2	3	0	2	3
U.S. Southwest Coast to South America West Coast (0414)	0	18	25	0	17	26	0	21	29	0	26	36	0	28	39
South America West Coast to U.S. Southwest Coast (1404)	0	0	14	0	7	26	0	6	33	0	6	42	0	7	45
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	179	0	207	287	0	372	517	0	590	819
China to U.S. Southwest Coast (2104)	0	0	0	0	129	21	0	27	37	0	37	51	0	49	68
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	2	2	0	3	4	0	4	6	0	5	7
South East Asia to U.S. Southwest Coast (2204)	1	6	484	0	2	10	0	9	12	0	11	15	0	13	18
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	134	187	0	222	308	0	370	514	0	497	691
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	4	6	0	5	7	0	6	8	0	7	10
Total - U.S. Southwest Coast Routes	9	865	3,589	5	1,691	3,788	7	2,253	4,949	11	3,573	7,947	17	5,426	12,197
Total - US Routes	100	9,293	38,142	60	15,888	33,720	70	19,444	40,712	92	26,383	55,502	124	35,388	75,361

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship Type RoRo - Less than 10,000 DMT (AF)
On U.S. Southwest Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	1	5	76	0	7	24	0	1	30	0	2	44	1	7	72
Japan to U.S. Southwest Coast (1004)	1	21	112	0	24	34	0	30	41	0	44	62	1	72	100
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	2	9	0	2	3	0	2	3	0	4	5	0	5	6
U.S. Southwest Coast to Far East NIC's (0412)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	9	0	0	4	0	0	5	0	0	4	0	0	7
U.S. Southwest Coast to South America East Coast (0413)	0	4	8	0	2	3	0	2	3	0	2	3	0	2	3
South America East Coast to U.S. Southwest Coast (1304)	0	0	16	0	0	8	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	14	27	0	10	14	0	11	15	0	12	17	0	13	18
South America West Coast to U.S. Southwest Coast (1404)	2	0	247	1	0	53	0	0	47	0	0	46	0	0	49
U.S. Southwest Coast to East Africa (0415)	2	63	278	1	40	55	0	35	49	0	35	48	0	37	51
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	3	3	0	4	6	0	7	10	0	12	17
U.S. Southwest Coast to South East Asia (0422)	0	4	12	0	9	13	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	2	4	0	2	4	0	16	22	0	24	34	0	30	42
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	3	4	0	2	6	0	7	10	0	3	12
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	4	6	0	7	10	0	10	14
Total - U.S. Southwest Coast Routes	7	114	826	2	103	226	2	115	246	3	147	310	4	192	405
Total - US Routes	127	2,502	11,441	68	3,507	6,849	76	4,139	7,616	90	5,433	8,950	103	6,936	10,690

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship Type Reefer (BA)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southwest Coast to Northern Europe (0406)	1	79	139	1	93	173	1	102	189	1	88	164	1	73	135	1	5	105	1	5
Northern Europe to U.S. Southwest Coast (0904)	2	26	206	2	16	236	2	14	259	2	9	224	2	0	213	2	0	213	2	0
U.S. Southwest Coast to Southern Europe (0409)	1	19	38	1	30	197	1	32	206	1	33	213	1	33	213	1	33	213	1	33
Southern Europe to U.S. Southwest Coast (0904)	2	25	349	5	502	930	6	575	1,064	8	769	1,425	10	935	1,732	10	935	1,732	10	935
U.S. Southwest Coast to Japan (0410)	2	22	156	2	14	375	2	11	429	3	5	575	3	3	699	3	3	699	3	3
Japan to U.S. Southwest Coast (1004)	1	14	41	0	23	43	0	28	52	0	32	59	0	35	61	0	35	61	0	35
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	4	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	4	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	4	22	427	4	14	429	3	14	399	3	18	369	3	19	311	3	19	311	3	19
South America East Coast to U.S. Southwest Coast (1304)	1	46	87	1	44	82	1	41	77	1	38	71	1	32	60	1	32	60	1	32
U.S. Southwest Coast to South America West Coast (0414)	7	0	1,523	9	0	1,595	9	0	1,663	11	0	1,663	11	12	2,292	12	14	2,292	12	14
South America West Coast to U.S. Southwest Coast (1404)	8	391	1,690	9	947	1,753	10	987	1,827	12	1,201	2,225	14	1,360	2,519	14	1,360	2,519	14	1,360
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	4	16	0	8	14	0	13	24	1	20	38	1	26	48	1	26	48	1	26
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	12	0	0	12	0	0	21	0	0	33	1	0	42	1	0	42	1	0
U.S. Southwest Coast to Other Med (0419)	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	20	0	0	18	0	0	21	0	0	26	0	0	30	0	0	30	0	0
China to U.S. Southwest Coast (2104)	0	2	10	0	5	10	0	6	12	0	8	15	0	9	17	0	9	17	0	9
U.S. Southwest Coast to South East Asia (0422)	0	1	25	1	2	60	0	2	56	0	4	56	0	5	55	0	5	55	0	5
South East Asia to U.S. Southwest Coast (2204)	0	2	4	0	5	10	0	5	9	0	5	9	0	5	9	0	5	9	0	5
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	1	3	0	2	3	0	1	3	0	1	2	0	1	2	0	1
Total - U.S. Southwest Coast Routes	29	855	4,834	36	1,706	5,998	38	1,832	6,349	45	2,231	7,586	49	2,540	8,471	49	2,540	8,471	49	2,540

Total - US Routes

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - Less than 20,000 DWT (DA)
On U.S. Southeast Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	0	9	18	0	6	8	0	0	7	9	0	5	0	0	7	0	0	4		
Northern Europe to U.S. Southwest Coast (0804)	0	0	42	0	0	12	0	0	0	12	0	0	0	0	10	0	0	0		
U.S. Southwest Coast to Southern Europe (0409)	0	3	14	0	0	7	0	0	0	8	0	0	0	0	14	0	0	0		
Southern Europe to U.S. Southwest Coast (0904)	0	3	14	0	0	12	0	0	0	15	0	19	0	0	25	0	0	0		
U.S. Southwest Coast to Japan (0410)	1	153	217	2	375	490	2	336	639	1	178	233	0	0	253	0	0	115		
Japan to U.S. Southwest Coast (1004)	2	121	418	3	195	1,137	3	180	1,019	1	130	540	1	0	0	1	89	268		
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Far East NIC's (0412)	0	9	38	0	0	101	0	105	138	1	129	168	1	135	168	1	135	177		
Far East NIC's to U.S. Southwest Coast (1204)	0	66	131	1	77	328	2	54	447	2	73	546	2	95	546	2	95	573		
U.S. Southwest Coast to South America East Coast (0413)	2	13	319	1	3	100	1	5	86	0	0	6	0	4	28	0	4	28		
South America East Coast to U.S. Southwest Coast (1304)	0	33	77	0	21	27	0	18	24	0	10	14	0	6	8	0	6	8		
U.S. Southwest Coast to South America West Coast (0414)	1	0	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Southwest Coast (1404)	1	11	146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to China (0421)	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Southwest Coast (2104)	0	0	47	0	3	12	0	7	16	0	9	16	0	9	16	0	9	17		
U.S. Southwest Coast to South East Asia (0422)	1	1	90	1	14	18	0	17	23	0	18	23	0	19	23	0	19	25		
South East Asia to U.S. Southwest Coast (2204)	0	4	38	0	3	134	1	6	181	2	11	236	2	16	236	2	16	463		
U.S. Southwest Coast to Indian Sub-Continent (0423)	1	4	51	0	43	56	0	58	76	1	94	123	1	148	123	1	148	194		
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	1	1	0	11	14	0	16	21	0	16	21	0	16	21		
Total - U.S. Southwest Coast Routes	9	452	1,884	8	807	2,451	9	817	2,507	8	699	2,086	8	661	2,086	8	661	1,963		
Total - US Routes	82	5,982	15,249	84	8,342	16,982	90	8,915	18,008	99	9,603	19,071	117	10,954	19,071	117	10,954	21,991		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 20,000 to 40,000 DWT (08)
On U.S. Southwest Coast Routes

ROUTE	On U.S. Southwest Coast: Routes 1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Southwest Coast to Northern Europe (0408)	5	163	1,421	1	223	285	1	241	308	1	249	318	1	244	312	
Northern Europe to U.S. Southwest Coast (0804)	3	225	1,143	0	60	231	0	64	249	0	68	257	0	74	252	
U.S. Southwest Coast to Southern Europe (0409)	3	163	1,421	1	172	292	1	156	360	1	156	360	1	34	359	
Southern Europe to U.S. Southwest Coast (0904)	2	47	474	0	121	155	0	149	190	0	228	291	0	306	345	
U.S. Southwest Coast to Japan (0410)	10	1,054	3,663	4	1,391	1,777	3	1,296	1,655	2	849	1,065	2	505	1,119	
Japan to U.S. Southwest Coast (1004)	20	644	8,480	7	513	3,085	6	478	2,873	4	259	1,883	3	437	1,177	
U.S. Southwest Coast to Australia/New Zealand (0411)	1	19	276	1	108	514	1	169	574	2	282	911	2	138	1,179	
Australia/New Zealand to U.S. Southwest Coast (1104)	1	320	575	1	495	633	1	553	707	2	878	1,121	2	1,230	1,571	
U.S. Southwest Coast to Far East NIC's (0412)	11	612	3,322	5	1,553	1,983	8	2,379	3,038	13	3,852	4,919	17	5,174	6,607	
Far East NIC's to U.S. Southwest Coast (1204)	13	2,622	5,284	6	1,553	2,543	9	1,538	3,898	15	1,421	6,513	20	1,135	8,478	
U.S. Southwest Coast to South America East Coast (0413)	29	1,167	1,125	18	45	733	16	70	612	12	78	513	10	69	570	
U.S. Southwest Coast to U.S. Southwest Coast (1304)	4	1,307	2,200	2	75	989	2	71	908	2	543	693	1	447	570	
U.S. Southwest Coast to South America West Coast (0414)	6	20	2,050	0	8	19	0	6	22	0	3	22	0	21	27	
South America West Coast to U.S. Southwest Coast (1404)	4	23	2,065	0	3	4	0	5	7	0	12	15	0	22	28	
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
East Africa to U.S. Southwest Coast (1504)	0	16	55	0	41	55	0	70	67	0	90	85	0	114	146	
U.S. Southwest Coast to West Africa (0416)	0	3	16	0	43	55	0	51	90	0	68	89	0	57	107	
West Africa to U.S. Southwest Coast (1604)	0	8	16	0	30	38	0	22	28	0	26	33	0	31	40	
U.S. Southwest Coast to South Africa (0417)	0	16	242	0	17	22	0	48	62	0	60	76	0	53	67	
South Africa to U.S. Southwest Coast (1704)	0	55	75	0	45	58	0	0	15	0	0	18	0	0	2	
U.S. Southwest Coast to Arabian Gulf (0418)	1	22	74	0	0	14	0	6	2	0	3	4	0	1	1	
Arabian Gulf to U.S. Southwest Coast (1804)	0	78	74	0	7	9	0	0	2	0	0	4	0	0	0	
U.S. Southwest Coast to Other Med (0419)	2	0	181	0	0	3	0	0	116	0	141	181	1	176	225	
Other Med to U.S. Southwest Coast (1904)	1	0	746	0	44	56	0	91	163	1	59	223	1	64	279	
U.S. Southwest Coast to China (0421)	3	9	1,021	0	47	69	0	59	136	1	274	350	1	485	619	
China to U.S. Southwest Coast (2104)	3	9	1,021	0	105	177	1	136	284	1	284	533	2	363	942	
U.S. Southwest Coast to South East Asia (0422)	4	8	1,082	1	211	269	1	222	338	2	347	444	2	360	459	
South East Asia to U.S. Southwest Coast (2204)	5	98	1,639	1	196	250	2	265	37	0	4	48	0	5	50	
U.S. Southwest Coast to Indian Sub-Continent (0423)	3	169	498	0	4	27	0	4	16,940	63	10,161	21,118	72	11,546	25,521	
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	3	39,075	50	7,788	14,378	55	8,912	16,940	63	10,161	21,118	72	11,546	25,521	
Total - U.S. Southwest Coast Routes	134	7,875	39,075	50	7,788	14,378	55	8,912	16,940	63	10,161	21,118	72	11,546	25,521	
Total - US Routes	646	87,212	206,137	558	111,051	203,615	628	122,762	232,001	673	128,477	253,047	752	137,203	287,952	

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 40,000 to 80,000 DWT (DC)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	5	194	2,739	0	223	322	0	231	325	0	221	273	0	221	273	0	197	263	0	197
Northern Europe to U.S. Southwest Coast (0804)	8	271	3,733	0	264	301	0	266	304	0	207	255	0	207	255	0	171	227	0	171
U.S. Southwest Coast to Southern Europe (0409)	1	84	882	0	272	335	0	333	411	0	11	236	0	11	236	0	6	303	0	6
Southern Europe to U.S. Southwest Coast (0904)	17	1,079	2,309	13	1,561	1,928	12	1,475	1,821	8	508	1,240	5	508	1,240	5	651	803	5	651
U.S. Southwest Coast to Japan (0410)	6	680	5,685	5	966	5,724	5	872	5,408	3	1,054	3,682	3	1,054	3,682	3	299	762	3	299
Japan to U.S. Southwest Coast (1004)	2	114	958	1	152	854	2	219	1,005	3	287	1,610	4	354	2,264	4	373	2,147	4	373
U.S. Southwest Coast to Australia/New Zealand (0411)	2	158	257	0	184	227	0	222	274	1	355	438	1	355	438	1	473	586	1	473
Australia/New Zealand to U.S. Southwest Coast (1104)	8	1,382	5,314	4	2,513	3,404	5	3,424	4,611	8	4,970	6,998	13	6,135	10,865	13	6,135	10,865	13	6,135
U.S. Southwest Coast to Far East NIC's (0412)	4	1,188	2,354	2	1,178	1,455	2	1,596	1,971	4	2,423	2,991	6	3,761	4,643	6	3,761	4,643	6	3,761
Far East NIC's to U.S. Southwest Coast (1204)	14	854	5,597	10	880	6,200	9	1,212	5,595	6	1,554	3,957	5	1,554	3,957	5	1,554	3,957	5	1,554
U.S. Southwest Coast to South America East Coast (0413)	2	83	1,581	1	880	1,087	1	783	966	1	554	684	1	554	684	1	421	520	1	421
South America East Coast to U.S. Southwest Coast (1304)	2	83	1,581	0	4	5	0	4	5	0	4	5	0	4	5	0	4	5	0	4
U.S. Southwest Coast to South America West Coast (0414)	1	0	786	0	1	3	0	1	3	0	1	3	0	1	3	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	26	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	8	10	0	12	15	0	16	20	0	16	20	0	1	1	0	1
U.S. Southwest Coast to South Africa (0417)	0	30	84	0	56	69	0	93	115	0	126	155	0	126	155	0	112	138	0	112
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	3	4	0	4	5	0	5	6	0	5	6	0	6	7	0	6
U.S. Southwest Coast to Arabian Gulf (0418)	0	99	158	0	26	32	0	25	31	0	16	20	0	16	20	0	11	13	0	11
Arabian Gulf to U.S. Southwest Coast (1804)	1	24	279	0	6	59	0	9	56	0	6	36	0	6	36	0	4	26	0	4
U.S. Southwest Coast to Other Med (0419)	3	112	1,198	0	10	35	0	8	42	0	5	60	0	5	60	0	2	92	0	2
Other Med to U.S. Southwest Coast (1904)	0	4	163	0	7	8	0	8	10	0	11	14	0	11	14	0	17	21	0	17
U.S. Southwest Coast to China (0421)	1	1	469	0	35	117	0	73	121	0	112	138	0	112	138	0	135	167	0	135
China to U.S. Southwest Coast (2104)	1	7	363	0	76	94	0	78	97	0	80	110	0	80	110	0	87	134	0	87
U.S. Southwest Coast to South East Asia (0422)	1	0	305	0	18	187	0	24	198	0	48	248	0	48	248	0	85	309	0	85
South East Asia to U.S. Southwest Coast (2204)	1	110	519	0	253	312	0	266	329	1	334	412	1	334	412	1	417	514	1	417
U.S. Southwest Coast to Indian Sub-Continent (0423)	1	143	335	0	191	236	1	251	310	1	317	391	1	317	391	1	312	385	1	312
Indian Sub-Continent to U.S. Southwest Coast (2304)	1	3	285	0	6	212	0	5	279	0	5	352	1	5	352	1	4	347	1	4
Total - U.S. Southwest Coast Routes	81	6,647	37,702	40	8,892	23,417	40	10,304	24,463	38	12,172	24,963	41	14,335	28,559	41	117,619	232,577	41	117,619
Total - US Routes	391	84,816	193,869	328	107,537	204,354	369	119,897	230,207	354	119,065	228,221	351	117,619	232,577	351	117,619	232,577	351	117,619

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Bulk Carriers - 80,000 to 100,000 DWT (000)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	32	38	0	33	39	0	31	37	0	27	32	0	27	32		
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	41	48	0	41	48	0	34	40	0	28	33	0	28	33		
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	59	69	0	73	85	0	111	130	0	143	168	0	143	168		
Southern Europe to U.S. Southwest Coast (0904)	0	130	173	0	361	423	0	338	396	0	225	263	0	135	158	0	135	158		
U.S. Southwest Coast to Japan (0410)	0	0	163	0	152	398	0	140	372	0	87	248	0	49	149	0	49	149		
Japan to U.S. Southwest Coast (1004)	0	0	0	0	24	28	0	33	39	0	42	49	0	52	61	0	52	61		
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	17	20	0	22	26	0	35	41	0	45	53	0	45	53		
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	395	463	1	531	621	1	758	866	1	922	1,079	1	922	1,079		
U.S. Southwest Coast to Far East NIC's (0412)	0	0	82	1	160	187	0	231	270	0	394	449	0	629	736	0	629	736		
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	131	154	0	116	136	0	81	95	0	60	71	0	60	71		
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	9	10	0	15	17	0	20	23	0	18	21	0	18	21		
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	3	4	0	3	3	0	1	1	0	0	0	0	0	0		
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	1	1	0	2	2	0	1	1	0	0	0	0	0	0		
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	2	2	0	1	1	0	1	1	0	0	0	0	0	0		
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	2	2	0	1	1	0	1	1	0	0	0	0	0	0		
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	1	1	0	2	2	0	2	2	0	0	0	0	0	0		
U.S. Southwest Coast to China (0421)	0	0	0	0	5	6	0	10	12	0	15	18	0	18	22	0	18	22		
China to U.S. Southwest Coast (2104)	0	0	0	0	12	14	0	12	14	0	12	14	0	13	16	0	13	16		
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Southwest Coast (2204)	0	5	87	0	56	65	0	58	68	0	76	89	0	100	117	0	100	117		
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	28	32	0	36	42	0	45	53	0	44	51	0	44	51		
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1		
Total - U.S. Southwest Coast Routes	0	135	505	1	1,491	1,964	1	1,698	2,195	2	1,963	2,442	2	2,290	2,769	2	2,290	2,769		
Total - US Routes	6	3,792	5,948	16	20,555	29,809	18	22,677	32,912	17	22,361	32,556	17	21,827	32,219	17	21,827	32,219		

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 100,000 to 175,000 DWT (DE)
On U.S. Southwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	277	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	1	91	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	504	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	395	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	1,114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	2	91	3,904	0	179	280	0	196	305	0	246	375	0	287	430					
Total - US Routes	43	25,011	55,271	38	31,318	56,274	44	35,695	65,663	43	34,324	68,298	42	32,948	70,850					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Bulk Carriers - Greater than 175,000 DWT (OF)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	180	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	10	0	0	12	0	0	19	22	0	25	29
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	16	0	0	17	0	0	20	23	0	21	25
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	252	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	2	0	0	1	0	0	1	2	0	2	2
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	0	669	583	0	28	33	0	31	36	0	40	47	0	48	56
Total - US Routes	2	669	3,119	3	7,332	11,062	3	8,043	12,477	3	7,363	12,435	3	6,818	12,472

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Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Combination Carriers - 20,000 to 40,000 DWT (EB)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Southern Europe (0409)	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South America East Coast (0413)	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America East Coast to U.S. Southwest Coast (1304)	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Southwest Coast (1404)	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Southwest Coast Routes	1	0	186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - US Routes	1	32	456	0	61	192	0	57	181	0	43	141	0	30	102					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 40,000 to 80,000 DWT (EC)
On U.S. Southwest Coast Routes

ROUTE	1987			1992			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	70	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	68	68	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	13	133	0	0	52	0	52	64	0	81	100	0	106	131
Southern Europe to U.S. Southwest Coast (0904)	0	0	272	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	134	404	0	231	265	0	323	399	1	485	599	1	605	747
Far East NIC's to U.S. Southwest Coast (1204)	0	0	54	0	0	38	0	0	53	0	0	70	0	0	99
U.S. Southwest Coast to South America East Coast (0413)	0	0	226	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	190	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	190	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	132	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	2	2	0	1	1	0	2	2	0	2	3
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	2	0	1	2	0	1	2	0	1	1
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	2	215	1,982	0	276	378	1	378	519	1	569	782	1	715	981

Total - US Routes

28,883

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Combination Carriers - 80,000 to 100,000 DWT (ED)
On U.S. Southwest Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	7	5,069	8,448	11	8,560	15,898	11	9,199	16,824	11	9,121	16,753	11	8,688	16,358

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 100,000 to 175,000 DWT (EE)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	279	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	7	127	0	0	30	0	0	0	0	49	57	0	63	74
U.S. Southwest Coast to Japan (0410)	0	0	118	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	695	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	153	276	0	0	279	0	0	0	0	472	552	0	581	680
Far East NIC's to U.S. Southwest Coast (1204)	0	0	779	0	0	547	0	0	0	0	0	1,063	0	0	1,335
U.S. Southwest Coast to South America East Coast (0413)	0	0	152	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	1,491	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	559	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	4	0	0	0	0	3	4	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	106	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	74	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	2	160	4,655	1	267	859	1	356	1,158	1	524	1,695	1	649	2,094
Total - US Routes	25	16,463	36,876	20	23,204	40,753	22	25,757	46,253	24	27,170	52,149	26	28,748	57,805

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Combination Carriers - Greater than 175,000 DWT (EF)
On U.S. Southwest Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0809)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0906)	0	0	0	0	4	5	0	0	5	0	0	9	0	10	12
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	42	49	0	0	57	0	83	97	0	103	120
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	1	1	0	0	0	0	1	1	0	1	1
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	0	203	585	1	4,624	5,410	1	5,261	6,155	1	5,895	6,897	2	6,593	7,713

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - Less than 10,000 DWT (FA)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	1	20	0	2	3	0	0	0	0	4	6	0	7	9
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	4	9	0	1	1	0	0	0	0	1	1	0	1	1
U.S. Southwest Coast to Japan (0410)	0	6	9	0	9	11	0	0	0	0	8	10	0	8	10
Japan to U.S. Southwest Coast (1004)	1	0	59	1	0	85	0	0	0	1	0	75	0	0	77
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	15	17	0	14	19	0	0	0	0	11	15	0	0	9
U.S. Southwest Coast to Far East NIC's (0412)	0	14	17	0	23	30	1	1	16	1	74	97	2	123	160
Far East NIC's to U.S. Southwest Coast (1204)	0	12	44	1	11	66	1	1	40	2	24	215	4	40	354
U.S. Southwest Coast to South America East Coast (0413)	0	9	15	0	17	10	0	0	14	0	5	9	0	3	10
South America East Coast to U.S. Southwest Coast (1304)	0	22	49	0	18	27	0	0	18	0	19	25	0	22	28
U.S. Southwest Coast to South America West Coast (0414)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	4	5	0	0	4	0	2	3	0	1	1
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	1	1	0	0	1	0	1	1	0	1	2
South East Asia to U.S. Southwest Coast (2204)	0	26	8	0	34	15	0	0	0	0	31	14	0	34	15
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	26	0	0	44	0	0	31	0	0	41	0	0	45
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	4	109	323	3	124	316	4	146	398	5	181	511	8	245	722

Total - US Routes

54 4,432 6,566 95 5,659 9,172 115 6,360 11,192 163 7,674 16,272 233 9,406 23,421

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	4	1,117	1,117	7	1,442	1,885	3	591	772	4	839	1,096	6	1,187	1,552					
Northern Europe to U.S. Southwest Coast (0804)	1	120	293	2	119	809	1	153	332	1	267	471	2	415	666					
U.S. Southwest Coast to Southern Europe (0409)	1	160	167	0	1	15	0	1	17	17	0	13	0	0	10					
Southern Europe to U.S. Southwest Coast (0904)	1	97	308	0	28	36	0	32	41	0	25	33	0	20	26					
U.S. Southwest Coast to Japan (0410)	4	1,584	1,808	2	887	1,661	3	1,018	1,330	3	992	1,277	2	924	1,203					
Japan to U.S. Southwest Coast (1004)	3	51	1,068	2	39	189	0	42	758	2	30	740	2	28	689					
U.S. Southwest Coast to Australia/New Zealand (0411)	1	166	189	1	125	229	2	105	259	0	30	181	0	89	117					
Australia/New Zealand to U.S. Southwest Coast (1104)	1	195	229	1	190	248	1	215	281	1	150	196	0	29	108					
U.S. Southwest Coast to Far East NIC's (0412)	3	812	957	4	1,084	1,417	5	1,259	1,646	5	1,200	1,568	6	1,617	2,114					
Far East NIC's to U.S. Southwest Coast (1204)	2	202	754	3	1,063	1,409	3	1,205	1,218	3	822	1,161	4	593	1,565					
U.S. Southwest Coast to South America East Coast (0413)	2	1,530	2,315	6	1,345	1,785	7	1,724	2,254	3	156	1,074	2	289	1,546					
South America East Coast to U.S. Southwest Coast (1304)	6	234	1,022	2	154	733	3	152	926	1	171	441	1	171	224					
U.S. Southwest Coast to South America West Coast (0414)	2	16	910	4	11	1,315	5	13	1,750	8	156	2,594	10	254	3,382					
South America West Coast to U.S. Southwest Coast (1404)	2	52	750	3	850	1,111	4	1,131	1,479	6	1,677	2,192	8	2,186	2,858					
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
West Africa to U.S. Southwest Coast (1604)	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to South Africa (0417)	0	12	25	0	0	0	0	0	0	0	0	0	0	0	0					
South Africa to U.S. Southwest Coast (1704)	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to Arabian Gulf (0418)	0	10	23	0	0	0	0	0	0	0	0	0	0	0	0					
Arabian Gulf to U.S. Southwest Coast (1804)	1	212	237	1	200	261	1	251	255	1	259	263	1	261	265					
U.S. Southwest Coast to Other Med (0419)	1	0	182	0	0	0	0	0	328	1	0	339	1	0	341					
Other Med to U.S. Southwest Coast (1904)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
China to U.S. Southwest Coast (2104)	0	0	28	0	128	168	0	143	187	0	69	90	0	24	32					
U.S. Southwest Coast to South East Asia (0422)	1	176	207	6	61	79	5	47	62	0	20	26	0	9	11					
South East Asia to U.S. Southwest Coast (2204)	0	159	159	3	144	1,472	5	96	1,369	5	61	1,436	6	36	1,655					
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	3	829	1,883	2	771	1,008	3	808	1,057	3	932	1,218					
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	4	6	0	5	7	0	6	8	0	6	8					
Total - U.S. Southwest Coast Routes	37	6,914	13,258	46	7,833	15,723	47	7,954	16,278	48	7,795	16,277	55	8,814	18,593					
Total - US Routes	295	57,310	113,686	449	88,983	168,596	491	99,642	184,180	548	115,683	214,393	684	147,117	270,379					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipyard Tankers - 40,000 to 80,000 DWT (FC)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	0	211	211	1	532	679	0	218	278	1	309	395	1	438	559					
Northern Europe to U.S. Southwest Coast (0804)	0	31	61	0	21	209	0	27	85	0	47	121	0	73	172					
U.S. Southwest Coast to Southern Europe (0409)	0	194	208	0	0	0	0	0	0	0	0	0	0	0	0					
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	10	13	0	12	15	0	9	12	0	7	9					
U.S. Southwest Coast to Japan (0410)	1	464	490	1	399	509	1	462	590	1	456	582	1	428	547					
Japan to U.S. Southwest Coast (1004)	0	0	0	0	7	9	0	7	10	0	5	7	0	4	5					
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	22	28	0	19	24	0	10	12	0	5	6					
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	33	42	0	37	48	0	26	33	0	16	20					
U.S. Southwest Coast to Far East NIC's (0412)	0	55	65	0	260	333	0	297	379	0	268	342	0	348	445					
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	30	38	0	36	46	0	62	79	0	103	132					
U.S. Southwest Coast to South America East Coast (0413)	2	1,200	1,538	3	1,312	1,676	4	1,658	2,118	2	784	1,160	2	269	322					
South America East Coast to U.S. Southwest Coast (1304)	1	227	391	1	211	411	1	211	519	0	223	284	1	254	324					
U.S. Southwest Coast to South America West Coast (0414)	0	23	415	0	19	228	0	24	303	0	10	449	1	3	586					
South America West Coast to U.S. Southwest Coast (1404)	0	0	384	0	150	192	0	200	255	0	296	378	1	386	493					
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
South Africa to U.S. Southwest Coast (1704)	0	62	62	0	1	1	0	1	1	0	1	1	0	1	2					
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	126	161	0	158	202	0	164	209	0	165	210					
U.S. Southwest Coast to Other Med (0419)	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0					
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to China (0421)	0	0	65	0	23	29	0	25	32	0	12	15	0	4	5					
China to U.S. Southwest Coast (2104)	0	0	0	0	23	29	0	198	253	0	121	154	0	68	86					
U.S. Southwest Coast to South East Asia (0422)	0	0	51	0	25	115	0	17	108	0	11	113	0	6	128					
South East Asia to U.S. Southwest Coast (2204)	0	203	237	1	407	519	1	382	488	1	399	510	1	453	579					
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	1	1	0	1	1	0	1	1	0	1	2					
Total - U.S. Southwest Coast Routes	6	2,671	4,235	8	3,822	5,490	8	3,989	5,754	7	3,214	4,859	8	3,033	5,632					
Total - US Routes	86	29,704	65,984	103	46,737	78,561	121	52,707	90,542	134	61,848	104,145	166	75,131	129,619					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - 80,000 to 100,000 DWT (FY)
On U.S. Southwest Coast Routes

ROUTE	1987					1995					2000					2010					2020				
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	0	277	277	1	413	510	209	0	169	209	0	241	297	1	340	420	0	0	0	0	0	0	0		
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
U.S. Southwest Coast to Japan (0410)	1	807	807	0	1	687	820	0	665	820	0	683	843	0	660	815	0	0	0	0	0	0			
Japan to U.S. Southwest Coast (1004)	0	0	340	0	0	249	297	0	0	297	0	0	305	0	0	295	0	0	0	0	0	0			
U.S. Southwest Coast to Australia/New Zealand (0411)	0	498	543	0	375	471	533	0	315	533	0	164	373	0	86	221	0	0	0	0	0	0			
Australia/New Zealand to U.S. Southwest Coast (1104)	0	403	403	0	387	477	540	0	438	540	0	306	378	0	182	224	0	0	0	0	0	0			
U.S. Southwest Coast to Far East NIC's (0412)	1	581	581	1	789	975	931	0	754	931	0	300	370	0	98	121	0	0	0	0	0	0			
Far East NIC's to U.S. Southwest Coast (1204)	0	0	182	0	0	240	229	0	0	229	0	0	91	0	30	47	0	0	0	0	0	0			
U.S. Southwest Coast to South America East Coast (0413)	0	0	185	0	182	233	295	0	299	295	0	113	139	0	38	47	0	0	0	0	0	0			
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	33	40	40	0	33	40	0	35	43	0	40	49	0	0	0	0	0	0			
U.S. Southwest Coast to South America West Coast (0414)	0	0	450	0	3	4	5	0	4	5	0	2	2	0	0	1	0	0	0	0	0	0			
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	214	0	0	9	12	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0			
Arabian Gulf to U.S. Southwest Coast (1804)	1	25	441	0	16	20	25	0	20	25	0	21	26	0	21	26	0	0	0	0	0	0			
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
U.S. Southwest Coast to China (0421)	0	0	97	0	0	392	332	0	0	332	0	0	202	0	0	113	0	0	0	0	0	0			
China to U.S. Southwest Coast (2104)	0	81	81	0	272	336	285	0	231	285	0	140	173	0	78	97	0	0	0	0	0	0			
U.S. Southwest Coast to South East Asia (0422)	1	358	1,224	1	247	1,276	1,289	1	162	1,289	1	95	1,365	2	49	1,529	0	0	0	0	0	0			
South East Asia to U.S. Southwest Coast (2204)	3	2,365	2,509	2	2,087	2,576	2,602	3	2,108	2,602	3	2,231	2,755	3	2,499	3,086	0	0	0	0	0	0			
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	1	1	1	0	1	1	0	1	1	0	1	2	0	0	0	0	0	0			
Total - U.S. Southwest Coast Routes	9	5,395	8,333	8	5,370	8,498	8,447	8	5,139	8,447	7	4,332	7,377	7	4,095	7,088	70	58,172	98,715	70	58,172	98,715			
Total - US Routes	95	43,275	112,339	63	44,251	78,020	83,244	65	48,056	83,244	66	52,550	89,900	66	52,550	98,715	70	58,172	98,715	70	58,172	98,715			

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipyard Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Southwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	64	75	0	26	31	0	37	44	0	53	62	0	0	0		
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Japan (0410)	0	0	0	0	91	106	0	108	127	0	112	131	0	108	127	0	0	0		
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	66	77	0	56	65	0	29	34	0	0	0	0	0	0		
Australia/New Zealand to U.S. Southwest Coast (1104)	0	219	230	0	278	326	0	315	368	0	221	258	0	15	18	0	0	0		
U.S. Southwest Coast to Far East NIC's (0412)	0	116	230	0	280	327	0	266	312	0	104	122	0	131	153	0	0	0		
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	31	36	0	0	0		
U.S. Southwest Coast to South America East Coast (0413)	0	0	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South America West Coast (0414)	0	0	1,710	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Southwest Coast (1404)	1	0	4,047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Southwest Coast (1704)	0	0	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	406	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Other Med (0419)	0	0	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to China (0421)	0	0	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Southwest Coast (2104)	0	0	0	0	41	48	0	35	41	0	21	25	0	12	14	0	0	0		
U.S. Southwest Coast to South East Asia (0422)	1	0	1,520	1	44	1,512	1	29	1,569	1	17	1,669	1	9	1,866	0	0	0		
South East Asia to U.S. Southwest Coast (2204)	1	1,950	2,103	1	1,814	2,122	1	1,882	2,201	2	2,003	2,342	2	2,238	2,618	0	0	0		
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Southwest Coast Routes	6	2,285	10,862	3	2,678	4,593	3	2,717	4,713	3	2,543	4,624	3	2,597	4,893	3	2,597	4,893		
Total - US Routes	86	48,330	153,437	80	85,252	145,146	99	106,191	179,040	133	143,821	238,940	169	183,327	302,855	169	183,327	302,855		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - 175,000 to 250,000 DWT (FF)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	1	0	3,764	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	37	43	0	42	49	0	24	28	0	29	34	0	17	20	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	25	29	0	0	0	0	0	0	0	9	11	0	3	3	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	3	0	4,239	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	3	0	6,652	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	1	0	1,108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	215	231	0	417	488	0	435	509	0	0	0	0	464	542	0	518	605	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	8	215	16,504	0	479	560	0	501	586	0	502	587	0	502	587	0	538	629	0	0
Total - US Routes	16	1,226	29,728	2	15,550	19,546	3	19,474	24,534	3	26,569	33,550	4	34,008	43,005					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - Greater than 250,000 DWT (FG)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	267	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	1,048	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	1	0	3,445	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	5,598	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	790	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	2	0	11,149	0	28	33	0	30	35	0	31	37	0	35	41

Total - US Routes	26	29,156	73,643	53	67,935	128,838	67	84,775	160,555	94	115,564	217,955	122	147,902	278,099
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3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For ShipType Gas Tankers (GA)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	1	73	0	0	21	0	0	0	0	9	19	0	3	7	0	1	0	2	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	7	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	1	8	575	0	9	21	0	9	9	19	0	3	7	0	1	0	1	0	2	0
Total - US Routes	70	3,540	21,365	49	5,185	22,894	56	6,747	29,175	64	9,384	39,007	86	12,788	52,852					

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Vehicle Carriers (HB)
On U.S. Southwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Southwest Coast to Northern Europe (0408)	1	0	99	1	0	224	1	0	0	215	0	0	0	0	0	144	0	0	86	
Northern Europe to U.S. Southwest Coast (0804)	6	172	1,017	5	186	2,062	5	178	1,973	3	119	0	0	0	0	1,322	2	71	788	
U.S. Southwest Coast to Southern Europe (0409)	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Southern Europe to U.S. Southwest Coast (0904)	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to Japan (0410)	21	0	4,358	29	873	13,411	27	0	12,782	22	662	15	0	0	0	10,164	15	0	7,095	
Japan to U.S. Southwest Coast (1004)	15	902	3,788	21	0	9,704	20	832	9,249	16	0	0	0	0	0	7,354	11	462	5,134	
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to Far East NIC's (0412)	2	0	346	3	0	2,052	5	0	2,708	7	0	0	0	0	0	4,415	11	0	6,359	
Far East NIC's to U.S. Southwest Coast (1204)	1	109	273	3	139	1,540	3	183	2,033	6	298	8	430	8	477	3,315	8	0	4,774	
U.S. Southwest Coast to South America East Coast (0413)	6	0	1,261	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South America East Coast to U.S. Southwest Coast (1304)	3	0	478	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to South America West Coast (0414)	2	0	430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South America West Coast to U.S. Southwest Coast (1404)	2	0	312	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to East Africa (0415)	0	10	46	0	0	62	0	0	41	0	0	0	0	0	0	14	0	0	4	
East Africa to U.S. Southwest Coast (1504)	0	0	30	0	5	52	0	3	34	0	1	0	0	0	0	12	0	0	3	
U.S. Southwest Coast to West Africa (0416)	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
West Africa to U.S. Southwest Coast (1604)	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to South Africa (0417)	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Africa to U.S. Southwest Coast (1704)	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to Arabian Gulf (0418)	4	0	302	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Arabian Gulf to U.S. Southwest Coast (1804)	2	0	164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to Other Med (0419)	8	0	1,484	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Med to U.S. Southwest Coast (1904)	1	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to China (0421)	0	0	69	0	1	9	0	1	12	0	2	0	0	0	0	23	0	3	39	
China to U.S. Southwest Coast (2104)	0	0	98	0	0	14	0	0	18	0	0	0	0	0	0	36	1	0	60	
U.S. Southwest Coast to South East Asia (0422)	0	0	61	0	0	49	0	6	64	0	11	0	0	0	0	127	1	19	213	
South East Asia to U.S. Southwest Coast (2204)	0	0	72	0	0	50	0	0	64	0	0	0	0	0	0	128	1	0	215	
U.S. Southwest Coast to Indian Sub-Continent (0423)	1	0	80	0	11	127	1	15	164	1	30	2	53	2	0	336	2	0	588	
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	21	0	0	47	0	0	60	0	0	0	0	1	0	124	1	0	216	
Total - U.S. Southwest Coast Routes	79	1,194	15,177	64	1,219	29,403	63	1,218	29,418	57	1,124	27,515	52	1,038	25,574					
Total - US Routes	266	3,730	51,989	216	3,877	91,054	224	3,975	95,338	227	3,899	99,251	230	3,848	103,936					

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Product Tankers - Less than 10,000 DWT (PA)
On U.S. Southwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	15	15	17	0	7	9	0	0	11	0	8	11	0	8	11	0	0	11	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	13	0	0	15	0	0	28	0	39	51	0	11	14	0	66	86	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	12	20	0	0	0	19	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	1	18	51	0	15	20	0	0	25	0	11	14	0	0	0	0	6	8	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	12	0	0	14	0	0	14	0	0	14	0	0	15	0	0	17	0	0
South East Asia to U.S. Southwest Coast (2204)	1	32	40	1	27	35	1	27	36	1	28	37	1	28	37	1	32	42	1	32
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	2	71	157	1	62	95	1	77	114	1	88	130	1	88	130	1	112	164	1	164
Total - US Routes	19	757	2,017	28	1,002	3,004	33	1,209	3,630	38	1,534	4,325	44	2,034	5,157					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Product Tankers - 10,000 to 40,000 DWT (PB)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	7	1,102	2,567	6	927	2,006	6	918	2,090	6	916	1,957	6	987	2,030					
Total - US Routes	40	4,148	10,671	22	4,008	7,064	23	4,347	7,740	25	5,022	8,575	30	6,171	10,414					

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 40,000 to 80,000 DWT (PC)
On U.S. Southwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	0	217	217	1	377	481	0	0	154	197	0	0	0	219	280	1	310	396		
Northern Europe to U.S. Southwest Coast (0804)	0	31	192	1	48	320	0	0	61	131	0	0	0	100	186	0	150	264		
U.S. Southwest Coast to Southern Europe (0409)	0	270	270	0	0	7	0	0	0	8	0	0	0	0	6	0	0	5		
Southern Europe to U.S. Southwest Coast (0904)	0	20	206	0	6	7	0	0	6	8	0	0	0	5	7	0	4	5		
U.S. Southwest Coast to Japan (0410)	1	850	879	1	432	551	1	1	505	645	1	1	1	506	647	1	481	614		
Japan to U.S. Southwest Coast (1004)	0	12	271	0	8	170	0	0	9	199	0	0	0	5	200	0	3	190		
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Far East NIC's (0412)	1	268	313	1	331	423	1	1	326	416	1	1	1	160	286	1	104	478		
Far East NIC's to U.S. Southwest Coast (1204)	0	38	86	0	25	88	0	0	28	87	0	0	0	47	60	0	78	99		
U.S. Southwest Coast to South America East Coast (0413)	2	664	1,686	1	593	757	2	0	749	937	1	0	0	354	667	1	120	763		
South America East Coast to U.S. Southwest Coast (1304)	0	100	285	0	81	125	0	0	81	158	0	0	0	86	110	0	99	126		
U.S. Southwest Coast to South America West Coast (0414)	1	10	1,333	0	8	10	0	0	10	12	0	0	4	5	7	0	1	2		
South America West Coast to U.S. Southwest Coast (1404)	2	0	1,672	0	0	12	0	0	0	15	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to West Africa (0416)	0	0	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South Africa (0417)	0	0	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	88	0	0	0	0	0	0	69	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Southwest Coast (1804)	0	24	68	0	32	40	0	0	40	51	0	0	0	41	52	0	41	53		
U.S. Southwest Coast to Other Med (0419)	0	0	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to China (0421)	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Southwest Coast (2104)	0	2	92	0	6	55	0	0	6	47	0	0	3	30	29	0	1	16		
U.S. Southwest Coast to South East Asia (0422)	0	0	490	2	58	74	0	0	49	63	0	0	0	30	39	0	17	22		
South East Asia to U.S. Southwest Coast (2204)	1	282	328	1	17	859	2	2	11	872	2	2	7	392	924	3	4	1,087		
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	365	466	1	1	370	473	1	1	0	0	501	1	440	562		
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Southwest Coast Routes	14	2,788	8,983	8	2,387	4,503	8	2,408	4,410	8	1,961	4,077	9	1,854	4,706	9	1,854	4,706		
Total - US Routes	76	26,612	57,511	96	35,219	74,004	104	38,712	80,731	113	42,351	90,463	133	49,436	107,089	133	49,436	107,089		

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Product Tankers - 80,000 to 100,000 DWT (PD)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	66	0	0	82	0	0	34	0	48	68
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	9	0	11	11	0	18	22	0	26	33
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	4	0	0	5	0	4	4	0	3	3
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	76	0	89	94	0	89	110	0	85	105
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	1	0	2	2	0	1	1	0	1	1
U.S. Southwest Coast to Australia/New Zealand (0411)	0	85	95	0	0	64	0	54	195	0	28	551	1	15	1,085
Australia/New Zealand to U.S. Southwest Coast (1104)	0	72	178	0	0	320	0	425	395	1	905	1,117	2	1,781	2,199
U.S. Southwest Coast to Far East NIC's (0412)	0	127	178	0	0	231	0	264	265	0	241	297	0	319	393
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	4	0	5	5	0	8	10	0	14	17
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	167	0	211	206	0	100	123	0	34	42
South America East Coast to U.S. Southwest Coast (1304)	0	70	92	0	0	14	0	14	18	0	15	19	0	17	22
U.S. Southwest Coast to South America West Coast (0414)	0	0	184	0	0	1	0	2	2	0	1	1	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	92	0	0	0	0	0	1	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	4	0	5	5	0	5	6	0	5	6
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	68	0	58	84	0	35	43	0	20	24
South East Asia to U.S. Southwest Coast (2204)	0	0	95	0	0	0	0	0	145	0	0	148	0	0	167
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	186	192	0	0	250	0	244	309	0	256	316	0	288	355
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	1	540	1,106	2	1,281	1,843	2	1,415	2,082	3	1,744	2,818	4	2,662	4,520
Total - US Routes	20	11,023	26,428	31	17,832	40,945	33	19,356	43,702	38	22,862	50,894	46	27,968	60,826

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Product Tankers - 100,000 to 175,000 DWT (PE)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 0.0 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0		
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	13	0	0	11	0	10	5	0	160	187	0	314	368		
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	66	0	0	88	0	75	37	0	37	44	0	53	62		
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	36	0	0	43	0	36	0	0	0	0	0	0	0		
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	13	0	0	16	0	14	7	0	7	8	0	2	3		
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Southwest Coast (2104)	0	0	0	0	0	12	0	0	10	0	9	5	0	5	6	0	3	3		
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	43	0	0	41	0	35	37	0	37	43	0	42	49		
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Southwest Coast Routes	0	0	0	0	0	183	0	0	180	0	252	294	0	417	488					
Total - US Routes	2	1,428	3,457	4	7,765	12,240	4	9,967	14,746	5	14,280	19,796	5	19,276	25,724					

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship Type Product Tankers - 175,000 to 250,000 DWT (PF)
On U.S. Southwest Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - US Routes	0	0	0	0	1,005	1,175	0	1,365	1,596	0	2,036	2,381	0	2,797	3,271

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Other Ships (XX)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	1	23	97	0	32	40	0	33	41	0	0	46	0	37	46	0	44	55	0	0
Northern Europe to U.S. Southwest Coast (0804)	1	0	110	0	0	45	0	0	46	0	0	0	0	0	52	0	0	62	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	22	0	0	7	0	0	10	0	0	16	0	13	16	0	19	24	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	8	585	0	0	681	0	551	681	0	638	785	0	0
U.S. Southwest Coast to Japan (0410)	2	207	569	2	461	569	2	474	815	2	476	948	2	551	948	2	547	1,095	2	0
Japan to U.S. Southwest Coast (1004)	0	283	892	2	294	792	2	393	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	1	14	179	0	52	65	0	73	90	0	0	111	1	87	158	0	79	289	1	1
Far East NIC's to U.S. Southwest Coast (1204)	1	57	221	0	57	80	0	85	111	0	0	26	1	158	195	0	289	357	0	0
U.S. Southwest Coast to South America East Coast (0413)	1	23	269	0	10	25	0	12	26	0	0	14	0	19	29	0	27	34	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	12	111	0	11	13	0	11	14	0	0	21	0	12	15	0	13	18	0	0
U.S. Southwest Coast to South America West Coast (0414)	4	15	807	0	14	18	0	17	21	0	0	21	0	21	26	0	22	27	0	0
South America West Coast to U.S. Southwest Coast (1404)	4	0	771	0	0	18	0	0	21	0	0	0	0	0	25	0	0	27	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	1	0	95	0	1	13	0	1	22	0	0	2	0	2	39	0	0	4	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	13	0	0	2	0	0	3	0	0	1,401	0	49	5	0	0	7	0	0
U.S. Southwest Coast to China (0421)	0	0	55	5	17	973	6	27	1,037	9	49	1,401	2	42	52	13	78	2,451	0	0
China to U.S. Southwest Coast (2104)	0	3	3	1	25	31	1	304	375	2	452	559	0	59	559	2	64	79	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	3	0	176	217	0	43	375	0	452	559	0	59	559	0	539	665	0	0
South East Asia to U.S. Southwest Coast (2204)	0	16	22	1	34	42	1	29	36	1	49	61	1	49	73	1	82	101	1	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	10	0	1	22	0	1	36	0	1	49	0	49	61	0	66	82	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	10	0	1	22	0	1	36	0	1	49	0	49	61	0	66	82	0	0
Total - U.S. Southwest Coast Routes	17	657	4,166	12	1,210	2,973	13	1,542	3,343	18	2,035	4,584	26	2,517	6,232	26	2,517	6,232	26	2,517
Total - US Routes	121	4,312	39,929	104	8,033	24,083	134	9,808	28,048	179	12,739	35,395	220	16,255	43,535	220	16,255	43,535	220	16,255

APPENDICES

WSTS Regions

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- | | | |
|----------------------------|--|--|
| 1. <u>United States*</u> | 8. <u>Other Mediterranean</u> | 13. <u>East Coast of South America</u> |
| 2. <u>Canada*</u> | Yugoslavia | Venezuela |
| 3. <u>Japan</u> | Gibraltar | Guyana |
| 4. <u>Southern Europe*</u> | Malta | Suriname |
| Greece | Cyprus | French Guiana |
| Italy | Morocco | Brazil |
| Portugal | Algeria | Paraguay |
| Spain | Tunisia | Argentina |
| Turkey | Libya | Uruguay |
| 5. <u>Northern Europe</u> | Egypt | |
| Austria | Syria | 14. <u>Red Sea & Arabian Gulf</u> |
| Belgium-Luxembourg | Lebanon | Jordan |
| Denmark | Israel | Iraq |
| Faeroe Islands | | Saudi Arabia |
| Finland | 9. <u>Eastern Africa</u> | North Yemen |
| France | Sudan | South Yemen |
| Germany | Ethiopia | Kuwait |
| Iceland | Djibouti | Bahrain |
| Ireland | Somalia | Abu Dhabi |
| Netherlands | Uganda | Dubai |
| Norway | Kenya | Other United Arab Emirates |
| Sweden | Tanzania | Qatar |
| Switzerland | | Oman |
| United Kingdom | 10. <u>Southern Africa</u> | Iran |
| Greenland | Angola | |
| 6. <u>Eastern Europe</u> | Zambia | 15. <u>Indian Subcontinent</u> |
| USSR | Zimbabwe | Afghanistan |
| East Germany | Malawi | Nepal |
| Poland | Mozambique | Pakistan |
| Czechoslovakia | Comoro Islands | Bangladesh |
| Hungary | Madagascar | India |
| Romania | Reunion | Bhutan |
| Bulgaria | Mauritius | Sri Lanka |
| Albania | Seychelles | Maldives |
| | Botswana | Burma |
| | Lesotho | |
| | Swaziland | 16. <u>Southeast Asia</u> |
| | South Africa | Thailand |
| | | Laos |
| 7. <u>Western Africa</u> | 11. <u>Caribbean Basin</u> | Cambodia |
| Mauritania | St. Pierre | Vietnam |
| Senegal | Mexico | Malaysia |
| Gambia | Cuba | Brunei |
| Mali | Haiti | Singapore |
| Niger | Dominica | Indonesia |
| Upper Volta | Jamaica | Philippines |
| Guinea-Bissau | Guatemala | |
| Cape Verde | Belize | 17. <u>China & North Korea</u> |
| Guinea | Bahamas | Mongolia |
| Sierra Leone | Bermuda | China |
| Liberia | Barbados | North Korea |
| Ivory Coast | Antigua | |
| Ghana | Dominican Republic | 18. <u>Far Eastern Newly Industrialized Economies*</u> |
| Togo | St. Lucia | South Korea |
| Soa Tome | Grenada | Taiwan |
| Benin | St. Vincent | Hong Kong |
| Nigeria | Honduras | Macau |
| Equatorial Guinea | El Salvador | |
| Cameroon | Nicaragua | 19. <u>South Pacific</u> |
| Chad | Costa Rica | Australia |
| Central African Republic | Panama | New Zealand |
| Gabon | U.S. Virgin Islands | Papua New Guinea |
| Congo | Panama Canal | New Caledonia |
| Zaire | Netherlands Antilles | Polynesia |
| Burundi | Martinique | New Hebrides |
| Rwanda | Guadeloupe | Nauru |
| | Trinidad | Solomon Islands |
| | | Fiji |
| | 12. <u>West Coast of South America</u> | Western Samoa |
| | Colombia | Tonga |
| | Ecuador | Pacific (Trust) Islands |
| | Peru | Guam |
| | Bolivia | Oceania N.E.S. |
| | Chile | |
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*Underlying country or coastal segments are also maintained separately.

WSTS Commodities Classifications

Group	Description	SITC Codes Included in Group
1	Live animals	00
2	Meat, fish, and dairy products	01,02,03
3	Fruit and vegetables	05
4	Grain, animal feedstuffs	041,042,043,044,045,08
5	Sugar	06
6	Flour, other food preparations, beverages, and tobacco	046,047,048,07,09,11,12
7	Animal skins, textile fibers and waste	21,26,29
8	Oilseeds	22
9	Animal and vegetable oils and fats	4
10	Rubber	23
11	Lumber, plywood, and processed wood	24,63
12	Pulp and waste paper	25
13	Phosphates and other natural fertilizers	271
14	Cement, lime, stone, and other crude minerals	27 (except 271), 661
15	Manufactured fertilizers	56
16	Iron ore	281
17	Bauxite and other nonferrous ores	287
18	Other ores and scrap	28 (except 281,287)
19	Coal and coke	32,335
20	Crude petroleum	333
21	Other petroleum products	33 (except 333,335)
22	Natural gas	34
23	Liquid bulk chemicals	511
24	Other chemicals	51 (except 511), 52,53
25	Pharmaceuticals, toiletries	54,55
26	Explosives, plastics, chemical products	57,58,59
27	Leather and rubber materials, textiles	61,62,65 (except 658,659)
28	Paper and paper manufactures	64
29	Other nonmetallic mineral and metal manufactures	66 (except 661,665,666), 69 (except 696,697,699)
30	Iron and steel	67
31	Nonferrous metals	68
32	Heavy industrial machinery and equipment	711,712,714,718,721,725,728,736,737
33	Light industrial machinery and equipment	713,716,724,726,727,741,742,743,745,749
34	Heavy transportation and construction equipment	722,723,744,782,783,786,791
35	Automobiles	781
36	Motorcycles, automotive parts	78 (except 781,782,783,786)
37	Aircraft and ships	79 (except 791)
38	Electrical equipment and parts	75,76,77
39	Consumer goods	658,659,665,666,696,697,699,8
40	Commodities and transactions N.E.S.	9

Vessel Type, Size Categories, and Codes

Type	DWT	Code
LINER:		
General Cargo	<10,000	AB
	>10,000	AA
Container	<10,000	AD
	>10,000	AC
Ro/Ro	<10,000	AF
	>10,000	AE
Other	<10,000	AH
	>10,000	AG
Reefer		BA
Multi-Deckers	<10,000	CB
	>10,000	CA
Bulk Carriers	<20,000	DA
	20,000 - 40,000	DB
	40,000 - 80,000	DC
	80,000 - 100,000	DD
	100,000 - 175,000	DE
	>175,000	DF
Combination Carriers	<20,000	EA
	20,000 - 40,000	EB
	40,000 - 80,000	EC
	80,000 - 100,000	ED
	100,000 - 175,000	EE
	>175,000	EF
Tankers	<10,000	FA
	10,000 - 40,000	FB
	40,000 - 80,000	FC
	80,000 - 100,000	FD
	100,000 - 175,000	FE
	175,000 - 250,000	FF
	>250,000	FG
Gas Tankers		GA
Heavy Lift		HA
Vehicle Carriers		HB

Vessel Deadweight/Draft Tables

Fleet Forecasts for the United States to 2020 has used deadweight capacity to measure vessel demand and supply, and to show the present and future composition of vessel fleets. To simplify the analyses and presentation of results, it also aggregated fleet capacities into a limited number of size ranges. To use the forecasts in Corps studies, it is necessary to relate the distributions of fleet capacity to the vessel dimensions that are relevant for study purposes--vessel drafts for channel deepening studies, vessel beam or length when channel width or bends are the problems.

The following tables have been prepared to facilitate use of the forecasts in channel deepening studies. The tables were produced by stratifying statistics for the current world fleet to show deadweight/draft relationships for specific types of vessels. Since the proportions of specific types of vessels change very little over time, the relationships shown are applicable to all forecast periods. There are three tables for each type of vessel. Average vessel deadweights are needed to calculate transportation cost by vessel size. Capacity distribution (total fleet deadweight and percent of total) are needed to calculate port transportation costs with and without channel deepening.

Because of variations in vessel geometry, actual average deadweights do not increase uniformly with design draft. Therefore, "smoothed" overall average deadweights are also shown. The "smoothed" deadweights are based on regression analyses using data for all vessels of each type shown. Analysis of the data showed almost all actual drafts were within the range of 15% less to 10% greater than the central trend (20% shallower in the case of containerships), and this is consistent with vessel design practice. There are deviations from the central trend due to Panama Canal and other constraints, but such deviations cannot be handled with the simple logarithmic curve used to produce smoothed drafts. Drafts for containerships also plateau at 43 feet for the largest sizes (50,000 dwt. and over) because of berth depths. Use of smoothed deadweights will avoid aberrations in channel deepening benefits (or negative benefits) using actual average sizes in the world fleet.

TANKER DEADWEIGHT/DRAFT RELATIONSHIPS

AVERAGE TANKER DEADWEIGHT BY DRAFT.....								ACTUAL	SMOOTHED
DEADWEIGHT SIZE CATEGORIES.....								AVERAGE	AVERAGE
DESIGN DRAFT	<10000	10K-40K	40K-80K	80K-100K	100K-175K	175K-250K	>250K	DWT	DWT
<15	3509							3509	NA
15	2136							2136	2288
16	2449							2449	2805
17	3117							3117	3396
18	3712							3712	4066
19	3764							3764	4822
20	4071							4071	5669
21	5181							5181	6611
22	5568	10935						5640	7656
23	5979	15243						8202	8808
24	6838	12621						8731	10073
25	8498	13287						11763	11457
26	8711	15855						13754	12965
27	9339	14909						14030	14604
28		16272						16272	16379
29		16503						16503	18295
30		20128	46624					21758	20359
31		22179	54381					22425	22577
32		25219						25219	24954
33		28373	42039					31697	27497
34		30462	47023					31938	30211
35		31553	47187					32465	33103
36		33259	52863					34527	36178
37		34442	44223					36805	39443
38		36766	49132			113512		42517	42903
39		34510	54245	81283		113996		52357	46566
40		39181	59803	85226		112500		72242	50436
41			56516	85921				62234	54520
42			64043	86990				71608	58824
43			64295	86475	151630			75674	63355
44			63455	87572	121293			78488	68118
45			67266	89703	101032			84456	73121
46			71002	89225	108983			88972	78368
47			61528	93440	107557			93665	83867
48			77102	90123	110711			99613	89624
49				93801	118815			107445	95645
50			69999	97187	126724			120884	101936
51				98319	126416			117476	108505
52				83935	129774	180305		117778	115356
53				83957	136450			115453	122498
54				99900	131604	180377		132608	129935
55					131854			131854	137675
56				81282	146749			145742	145724
57					145547	178380		152843	154089
58					138849	176162		151287	162775
59						195097	256000	203797	171790
60									181141
61					159571	233344	258000	212040	190833
62					173792	223256		210890	200873
63					159999	229644	258055	232787	211268
64						231579	259399	240431	222024
65						232598	255610	244530	233149
66						228143	260105	254294	244648
67						236466	266636	261836	256529
68						235027	271545	260995	268798
69							274828	274828	281461
70						225770	277997	264070	294526
71							279910	279910	307999
72							297455	297455	321887
73							329819	329819	336196
74							398848	398848	350934
75							362793	362793	366107
76							393168	393168	381722
>76							453574	453574	NA

TANKER DEADWEIGHT/DRAFT RELATIONSHIPS

DESIGN DRAFT	TOTAL TANKER FLEET DEADWEIGHT BY DRAFT.....							TOTAL DWT
	DEADWEIGHT SIZE CATEGORIES.....							
	<10000	10K-40K	40K-80K	80K-100K	100K-175K	175K-250K	>250K	ALL SIZES
<15	701875							701875
15	301184							301184
16	345279							345279
17	501837							501837
18	393466							393466
19	451691							451691
20	333837							333837
21	429997							429997
22	824110	21870						845980
23	454402	365832						820234
24	253016	227184						480200
25	59488	199305						258793
26	130667	570792						701459
27	28016	238550						266566
28		992569						992569
29		709646						709646
30		1227798	186494					1414292
31		2883286	54381					2937667
32		1992281						1992281
33		1588885	756702					2345587
34		2802497	423207					3225704
35		3565509	330310					3895819
36		7217281	792950					8010231
37		3891973	1592035					5484008
38		1764790	1523081		113512			3401383
39		379614	3037715	81283	113996			3612608
40		274269	3887174	6562393	112500			10836336
41			3277920	1202896				4480816
42			3906649	2609703				6516352
43			2443212	2853671	3442			5300325
44			1522928	3065030	121293			4709251
45			807190	2960198	202064			3969452
46			213005	4907353	217966			5338324
47			123056	2149116	537787			2809959
48			77102	1261720	1549951			2888773
49				1876027	2851552			4727579
50			69999	485933	3674994			4230926
51				688234	1896244			2584478
52				839351	2984798	180305		4004454
53				503740	1228048			1731788
54				99900	1974066	180377		2254343
55					11998718			11998718
56				81282	9391932			9473214
57					2037656	713520		2751176
58					277698	713520		991218
59						1170579	256000	1426579
60								0
61					797857	1866750	516000	3180607
62					521376	2009307		2530683
63					521376	2066796	1032220	3620392
64						6947362	3631583	10578945
65						6047544	7157093	13204637
66						1368859	7022848	8391707
67						1655260	9865533	11520793
68						3055346	8689444	11744790
69							10168629	10168629
70						903080	3057968	3961048
71							3918739	3918739
72							5949102	5949102
73							19129490	19129490
74							4387327	4387327
75							2176755	2176755
76							1179504	1179504
>76							4535739	4535739
Total	5208865	30913931	25025110	32227830	43128826	28878605	92673974	258057141

TANKER DEADWEIGHT/DRAFT RELATIONSHIPS

DESIGN DRAFT	PERCENTAGE DISTRIBUTION TANKER FLEET CAPACITY BY DRAFT..... DEADWEIGHT SIZE CATEGORIES.....							OVERALL PERCENT DWT
	<10000	10K-40K	40K-80K	80K-100K	100K-175K	175K-250K	>250K	
<15	0.272							0.272
15	0.117							0.117
16	0.134							0.134
17	0.194							0.194
18	0.152							0.152
19	0.175							0.175
20	0.129							0.129
21	0.167							0.167
22	0.319	0.008						0.328
23	0.176	0.142						0.318
24	0.098	0.088						0.186
25	0.023	0.077						0.100
26	0.051	0.221						0.272
27	0.011	0.092						0.103
28		0.385						0.385
29		0.275						0.275
30		0.476	0.072					0.548
31		1.117	0.021					1.138
32		0.772						0.772
33		0.616	0.293					0.909
34		1.086	0.164					1.250
35		1.382	0.128					1.510
36		2.797	0.307					3.104
37		1.508	0.617					2.125
38		0.684	0.590		0.044			1.318
39		0.147	1.177	0.031	0.044			1.400
40		0.106	1.506	2.543	0.044			4.199
41			1.270	0.466	0.000			1.736
42			1.514	1.011	0.000			2.525
43			0.947	1.106	0.001			2.054
44			0.590	1.188	0.047			1.825
45			0.313	1.147	0.078			1.538
46			0.083	1.902	0.084			2.069
47			0.048	0.833	0.208			1.089
48			0.030	0.489	0.601			1.119
49				0.727	1.105			1.832
50			0.027	0.188	1.424			1.640
51				0.267	0.735			1.002
52				0.325	1.157	0.070		1.552
53				0.195	0.476	0.000		0.671
54				0.039	0.765	0.070		0.874
55				0.000	4.650	0.000		4.650
56				0.031	3.639	0.000		3.671
57					0.790	0.276		1.066
58					0.108	0.276		0.384
59					0.000	0.454	0.099	0.553
60					0.000	0.000	0.000	0.000
61					0.309	0.723	0.200	1.233
62					0.202	0.779	0.000	0.981
63					0.202	0.801	0.400	1.403
64						2.692	1.407	4.099
65						2.343	2.773	5.117
66						0.530	2.721	3.252
67						0.641	3.823	4.464
68						1.184	3.367	4.551
69						0.000	3.940	3.940
70						0.350	1.185	1.535
71							1.519	1.519
72							2.305	2.305
73							7.413	7.413
74							1.700	1.700
75							0.844	0.844
76							0.457	0.457
>76							1.758	1.758
Total	2.018	11.979	9.698	12.489	16.713	11.191	35.912	100.000

BULK CARRIER DEADWEIGHT/DRAFT RELATIONSHIPS

.....AVERAGE BULK CARRIER DEADWEIGHT BY DRAFT.....							ACTUAL	SMOOTHED
DESIGN.....	SIZE RANGES (000 DWT).....						AVERAGE	AVERAGE
DRAFT	<20	20-40	40-80	80-100	100-175	>175	DWT	DWT
23	12721						12721	8353
24	12366						12366	9574
25	14034	22916					15144	10912
26	12137	22356					14524	12374
27	13125	28398					13464	13964
28	15266	37564					16897	15691
29	16090	23068					16210	17558
30	17246	24277					18289	19573
31	18185	24485					21344	21742
32	19344	25154					24780	24071
33	18205	26776	49662				26681	26565
34		28092	43773				28573	29233
35		32775	42585				33926	32078
36		34720	42947				36972	35109
37		37050	44395				39499	38331
38		37692	46254				42574	41751
39		37879	46614	87916			45344	45376
40		39722	56284				56163	49211
41			60001	87179			60424	53263
42			63314	86942			64139	57539
43			65948				65948	62046
44			67069	92067			67426	66790
45			71342	85014	111695		73946	71778
46			73578	81853			76268	77016
47			74439	80013			74717	82511
48			70304	80694	108992		92245	88270
49			75390	94413	112669		103445	94300
50					124244		124244	100607
51					111942		111942	107199
52					125013		125013	114082
53					137334	183063	139461	121263
54					135086		135086	128749
55					132221		132221	136547
56					148471	186739	158454	144664
57					152749	203723	160208	153107
58					146819	184259	159299	151882
59					162331	197013	189581	170998
60						198997	198997	180461
61					153265	197986	183079	190278
62								200457
63						240000	240000	211003
64								221926
65						225362	225362	233231
66								244927
67						260000	260000	257019

BULK CARRIER DEADWEIGHT/DRAFT RELATIONSHIPS

PERCENTAGE DISTRIBUTION BULK CARRIER FLEET CAPACITY BY DRAFT							TOTAL
DESIGN.....	SIZE RANGES (000 DWT).....						FLEET
DRAFT	<20	20-40	40-80	80-100	100-175	>175	CAPACITY
23	0.056						0.056
24	0.027						0.027
25	0.054	0.013					0.066
26	0.053	0.037					0.090
27	0.316	0.016					0.332
28	0.318	0.062					0.379
29	1.013	0.025					1.038
30	1.463	0.359					1.822
31	1.901	2.573					4.474
32	0.275	5.204					5.480
33	0.090	4.675	0.001				4.819
34		4.367	0.002				4.583
35		8.504	0.015				9.972
36		4.941	0.023				7.245
37		2.799	0.017				4.475
38		1.011	0.016				2.657
39		0.352	0.017	0.048			2.110
40		0.022	0.042	0.000			4.212
41			0.062	0.143			6.383
42			0.029	0.143			3.019
43			0.058	0.000			5.812
44			0.025	0.050			2.583
45			0.016	0.279	0.061		1.902
46			0.011	0.582	0.000		1.670
47			0.008	0.044	0.000		0.818
48			0.001	0.088	0.239		0.404
49			0.001	0.207	0.617		0.906
50					0.408		0.408
51					0.551		0.551
52					2.190		2.190
53					3.082	0.200	3.282
54					2.958	0.000	2.958
55					2.244	0.000	2.244
56					1.382	0.613	1.995
57					2.926	0.669	3.595
58					0.804	0.504	1.308
59					0.267	1.186	1.453
60					0.000	1.307	1.307
61					0.002	0.217	0.219
62						0.000	0.000
63						0.131	0.131
64						0.000	0.000
65						0.740	0.740
66						0.000	0.000
67						0.285	0.285
Total	5.566	34.959	34.308	1.585	17.729	5.853	100.000

LINER VESSEL DEADWEIGHT/DRAFT RELATIONSHIPS

.....AVERAGE LINER-TYPE VESSEL DEADWEIGHT BY DRAFT.....												
DESIGN	.....GENERAL CARGO VESSELS.....				.....CONTAINER VESSELS.....				.....RO-RO VESSELS.....			
DRAFT	DEADWEIGHT SIZES		OVERALL SMOOTHED DEADWEIGHT SIZES		DEADWEIGHT SIZES		OVERALL SMOOTHED DEADWEIGHT SIZES		DEADWEIGHT SIZES		OVERALL SMOOTHED	
(FEET)	<10000	>10000	AVERAGE	AVERAGE	<10000	>10000	AVERAGE	AVERAGE	<10000	>10000	AVERAGE	AVERAGE
<15	2251		2251	2229	2574		2574	2180	1819		1819	2007
15	2644		2644	2642	2625		2625	2645	3309		3309	2428
16	3538		3538	3098	3735		3735	3169	3210		3210	2902
17	3312		3312	3597	3972		3972	3755	3941		3941	3431
18	3884		3884	4141	3928		3928	4407	3759		3759	4018
19	4711		4711	4732	4486		4486	5128	4272		4272	4664
20	4528		4528	5369	6000	10164	6320	5920	5783	10300	5838	5374
21	6119		6119	6055	6961		6961	6786	5746	11256	6205	6149
22	7140		7140	6791	7249	10731	7556	7730	6795	11032	6963	6992
23	6250	12186	6910	7577	6995	10758	7650	8755	8032	10215	8294	7905
24	6886	11717	7293	8415	8417	13439	9254	9863	7882	11725	8473	8891
25	7612	11689	8677	9306	8776	11766	9225	11057	7505	10745	9567	9951
26	8369	12537	9949	10251	8465	14096	12357	12341	8500	14793	14203	11089
27	8548	13579	11771	11250	9207	14344	14095	13717	5618	21394	16135	12307
28	9133	13221	11917	12305		13790	13790	15187		14548	14548	13607
29	8477	14534	14488	13417		14536	14536	16755	8301	14677	13260	14992
30	9368	15511	15447	14586		19474	19474	18424	8450	20812	20125	16463
31		16916	16916	15814		20548	20548	20195		15660	15660	18023
32		18001	18001	17101		21036	21036	22073		21849	21849	19674
33		18155	18155	18448		23168	23168	24059		19051	19051	21419
34		22380	22380	19857		28007	28007	26157		23980	23980	23259
35		21860	21860	21327		30409	30409	28369		30264	30264	25197
36		25663	25663	22861		35722	35722	30697		44026	44026	27235
37				24458		34263	34263	33145				29376
38				26120		39621	39621	35715		31365	31365	31620
39		41687	41687	27847		41797	41797	38409				
40						40071	40071	41231				
41						45002	45002	44183				
42						46759	46759	47267				
43						51757	51757	50486				

LINER VESSEL DEADWEIGHT/DRAFT RELATIONSHIPS

TOTAL LINER-TYPE FLEET DEADWEIGHT BY DRAFT.....									
DESIGN	..GENERAL CARGO VESSELS..			....CONTAINER VESSELS....			.....RO-RO VESSELS.....		
DRAFT	DEADWEIGHT	SIZES	TOTAL	DEADWEIGHT	SIZES	TOTAL	DEADWEIGHT	SIZES	TOTAL
(FEET)	<10000	>10000	DWT	<10000	>10000	DWT	<10000	>10000	DWT
<15	380462		380462	90085		90085	247716		247716
15	195647		195647	23625		23625	138991		138991
16	339620		339620	85896		85896	192620		192620
17	304740		304740	23831		23831	201002		201002
18	330113		330113	78564		78564	184200		184200
19	325031		325031	112153		112153	170894		170894
20	344110		344110	144004	20328	164332	462605	10300	472905
21	648644		648644	278442		278442	252821	45023	297844
22	878186		878186	224709	32192	256901	496066	33096	529162
23	350024	85301	435325	132913	43031	175944	176705	30644	207349
24	599108	93734	692842	42086	13439	55525	173400	46900	220300
25	753564	409108	1162672	298385	70598	368983	30021	75217	105238
26	493774	451337	945111	177767	662525	840292	25500	429000	454500
27	393229	1113514	1506743	27621	846272	873893	22473	171148	193621
28	273993	846164	1120157		510248	510248		378243	378243
29	8477	1889475	1897952		188962	188962	16602	102737	119339
30	28105	4451618	4479723		837397	837397	16900	707594	724494
31		4854912	4854912		1582169	1582169		438487	438487
32		2610182	2610182		946602	946602		262189	262189
33		1797343	1797343		1668078	1668078		723946	723946
34		1544209	1544209		2436571	2436571		407667	407667
35		262320	262320		2371913	2371913		484224	484224
36		76990	76990		1964720	1964720		132079	132079
37			0		1815959	1815959			
38			0		4516769	4516769		94094	94094
39		166749	166749		2089863	2089863			
40					160285	160285			
41					1395067	1395067			
42					187035	187035			
43					2122027	2122027			
Total	6646827	20652956	27299783	1740081	26482050	28222131	2808516	4572588	7381104

LINER VESSEL DEADWEIGHT/DRAFT RELATIONSHIPS

.....PERCENTAGE DISTRIBUTION LINER-TYPE FLEET CAPACITY BY DRAFT.....									
DESIGN	..GENERAL CARGO VESSELS..			....CONTAINER VESSELS....			.....RO-RO VESSELS.....		
DRAFT	DEADWEIGHT SIZES		TOTAL	DEADWEIGHT SIZES		TOTAL	DEADWEIGHT SIZES		TOTAL
(FEET)	<10000	>10000	DWT	<10000	>10000	DWT	<10000	>10000	DWT
<15	1.394		1.394	0.319		0.319	3.356		3.356
15	0.717		0.717	0.084		0.084	1.883		1.883
16	1.244		1.244	0.304		0.304	2.610		2.610
17	1.116		1.116	0.084		0.084	2.723		2.723
18	1.209		1.209	0.278		0.278	2.496		2.496
19	1.191		1.191	0.397		0.397	2.315		2.315
20	1.260		1.260	0.510	0.072	0.582	6.267	0.140	6.407
21	2.376		2.376	0.987	0.000	0.987	3.425	0.610	4.035
22	3.217		3.217	0.796	0.114	0.910	6.721	0.448	7.169
23	1.282	0.312	1.595	0.471	0.152	0.623	2.394	0.415	2.809
24	2.195	0.343	2.538	0.149	0.048	0.197	2.349	0.635	2.985
25	2.760	1.499	4.259	1.057	0.250	1.307	0.407	1.019	1.426
26	1.809	1.653	3.462	0.630	2.348	2.977	0.345	5.812	6.158
27	1.440	4.079	5.519	0.098	2.999	3.096	0.304	2.319	2.623
28	1.004	3.100	4.103		1.808	1.808	0.000	5.124	5.124
29	0.031	6.921	6.952		0.670	0.670	0.225	1.392	1.617
30	0.103	16.306	16.409		2.967	2.967	0.229	9.587	9.816
31		17.784	17.784		5.606	5.606		5.941	5.941
32		9.561	9.561		3.354	3.354		3.552	3.552
33		6.584	6.584		5.911	5.911		9.808	9.808
34		5.656	5.656		8.634	8.634		5.523	5.523
35		0.961	0.961		8.404	8.404		6.560	6.560
36		0.282	0.282		6.962	6.962		1.789	1.789
37		0.000	0.000		6.435	6.435		0.000	0.000
38		0.000	0.000		16.004	16.004		1.275	1.275
39		0.611	0.611		7.405	7.405			
40					0.568	0.568			
41					4.943	4.943			
42					0.663	0.663			
43					7.519	7.519			
Total	24.348	75.652	100.000	6.166	93.834	100.000	38.050	61.950	100.000